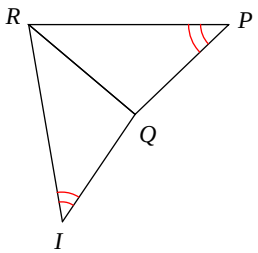
Geometry Name_____

# Assignment

Date_____ Period____

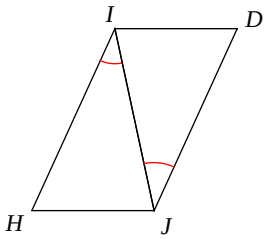
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) AAS



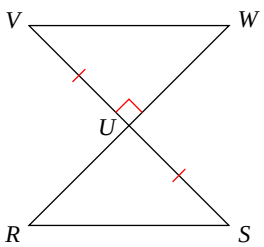

A) $\angle PQR \cong \angle IQR$ or $\angle QRP \cong \angle QRI$
B) $\overline{PQ} \cong \overline{IQ}$ or $\overline{QR} \cong \overline{QR}$
C) $\angle QRP \cong \angle QRI$
D) $\angle P \cong \angle I$ or $\angle PQR \cong \angle IQR$

2) SAS



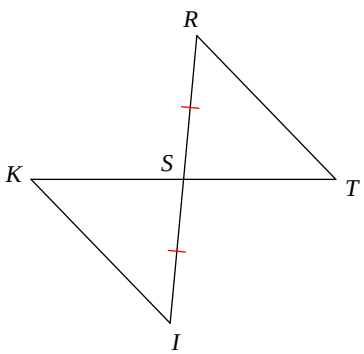

A) $\angle H \cong \angle D$ or $\angle IJH \cong \angle JID$
B) $\overline{HI} \cong \overline{DJ}$
C) $\angle IJH \cong \angle JID$
D) $\overline{JH} \cong \overline{ID}$

3) LL



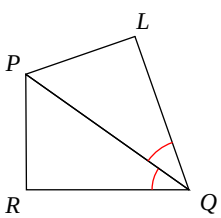

A) $\overline{WU} \cong \overline{RU}$
B) $\angle V \cong \angle S$
C) $\overline{UV} \cong \overline{US}$ or $\overline{VW} \cong \overline{SR}$
D) $\angle WUV \cong \angle RUS$ or $\angle W \cong \angle R$

4) AAS



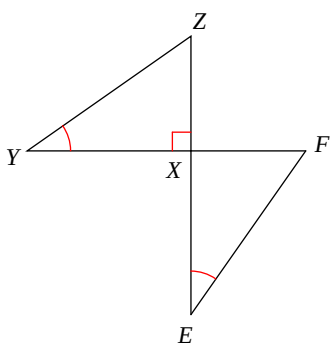

A) $\overline{RT} \cong \overline{IK}$
B) $\overline{TS} \cong \overline{KS}$ or $\overline{RT} \cong \overline{IK}$
C) $\angle T \cong \angle K$
D) $\angle TSR \cong \angle KSI$

5) ASA



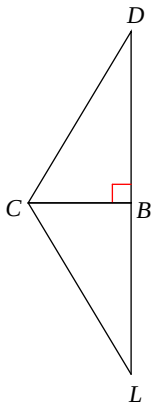

A) $\angle R \cong \angle L$
B) $\overline{PQ} \cong \overline{PQ}$
C) $\angle RPQ \cong \angle LPQ$ or $\angle R \cong \angle L$
D) $\angle RPQ \cong \angle LPQ$

6) HA



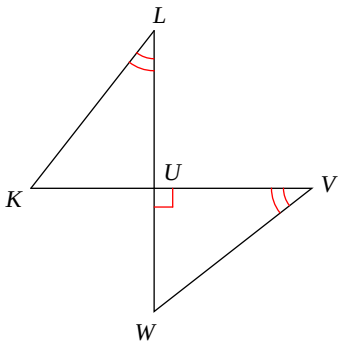

A) $\angle ZXY \cong \angle FXE$
B) $\overline{YZ} \cong \overline{EF}$
C) $\overline{XY} \cong \overline{XE}$ or $\overline{YZ} \cong \overline{EF}$
D) $\angle Y \cong \angle E$ or $\angle Z \cong \angle F$

7) HL



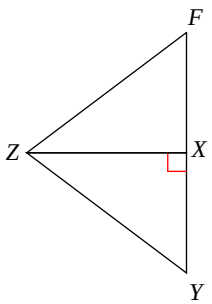

A) $\angle BCD \cong \angle BCL$
B) $\overline{CD} \cong \overline{CL}$
C) $\overline{CD} \cong \overline{CL}$ or $\overline{DB} \cong \overline{LB}$
D) $\angle DBC \cong \angle LBC$ or $\angle BCD \cong \angle BCL$

8) HA



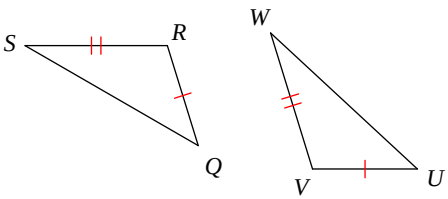

A) $\overline{WU} \cong \overline{KU}$
B) $\overline{VW} \cong \overline{LK}$
C) $\angle V \cong \angle L$
D) $\overline{UV} \cong \overline{UL}$ or $\overline{VW} \cong \overline{LK}$

9) LL



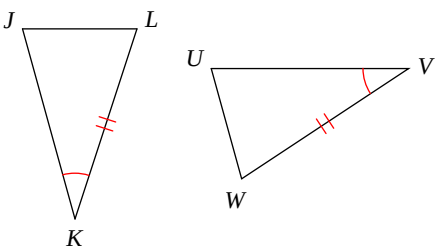

A) $\angle ZXY \cong \angle ZXF$ or $\angle Y \cong \angle F$
B) $\overline{YZ} \cong \overline{FZ}$
C) $\overline{XY} \cong \overline{XF}$
D) $\angle Y \cong \angle F$

10) SAS



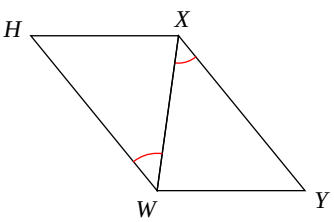

A) $\overline{QR} \cong \overline{UV}$
B) $\overline{SQ} \cong \overline{WU}$
C) $\angle Q \cong \angle U$ or $\angle S \cong \angle W$
D) $\angle R \cong \angle V$

11) AAS



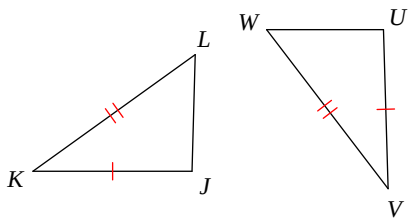

A) $\angle J \cong \angle U$
B) $\overline{JK} \cong \overline{UV}$ or $\overline{KL} \cong \overline{VW}$
C) $\overline{JK} \cong \overline{UV}$
D) $\angle J \cong \angle U$ or $\angle L \cong \angle W$

12) ASA



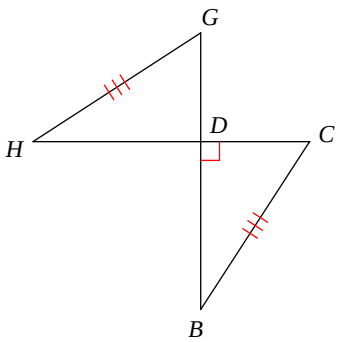

A) $\overline{YW} \cong \overline{HX}$
B) $\angle YWX \cong \angle HXW$
C) $\overline{XY} \cong \overline{WH}$
D) $\angle WXY \cong \angle XWH$

13) SSS



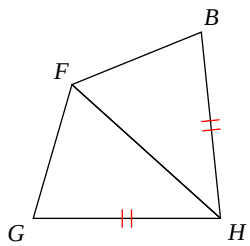

A) $\overline{KL} \cong \overline{VW}$
B) $\overline{LJ} \cong \overline{WU}$
C) $\overline{JK} \cong \overline{UV}$ or $\overline{KL} \cong \overline{VW}$
D) $\overline{JK} \cong \overline{UV}$

14) HL



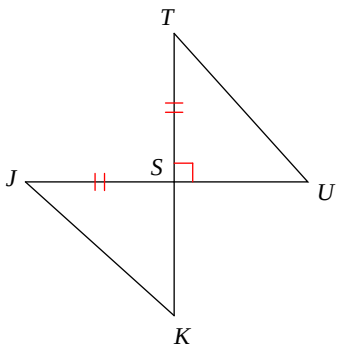

A) $\overline{DC} \cong \overline{DG}$ or $\overline{CB} \cong \overline{GH}$
B) $\overline{DC} \cong \overline{DG}$
C) $\overline{DC} \cong \overline{DG}$ or $\overline{BD} \cong \overline{HD}$
D) $\angle BDC \cong \angle HDG$

15) SSS



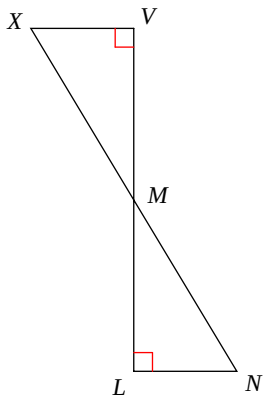

A) $\angle G \cong \angle B$
B) $\overline{GF} \cong \overline{BF}$
C) $\angle FHG \cong \angle FHB$ or $\angle GFH \cong \angle BFH$
D) $\overline{HG} \cong \overline{HB}$ or $\overline{FH} \cong \overline{FH}$

16) HL



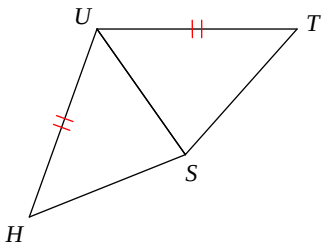

A) $\overline{ST} \cong \overline{SJ}$
B) $\overline{ST} \cong \overline{SJ}$ or $\overline{US} \cong \overline{KS}$
C) $\angle T \cong \angle J$ or $\angle U \cong \angle K$
D) $\overline{TU} \cong \overline{JK}$

17) LA



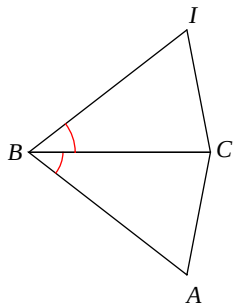

A) $\angle N \cong \angle X$
B) $\overline{LM} \cong \overline{VM}$ or $\overline{NL} \cong \overline{XV}$
C) $\angle L \cong \angle V$ or $\angle N \cong \angle X$
D) $\angle LMN \cong \angle VMX$ or $\angle N \cong \angle X$

18) SSS



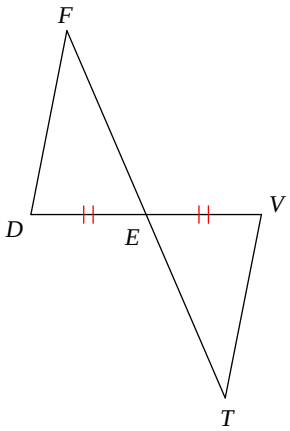

A) $\angle T \cong \angle H$
B) $\overline{UT} \cong \overline{UH}$ or $\overline{SU} \cong \overline{SU}$
C) $\overline{TS} \cong \overline{HS}$
D) $\overline{UT} \cong \overline{UH}$

19) SAS



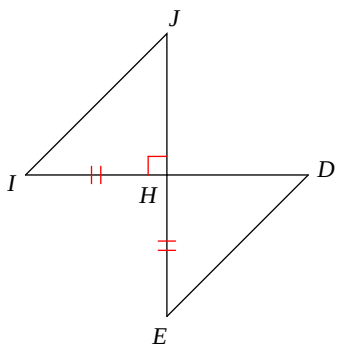

A) $\overline{AB} \cong \overline{IB}$
B) $\angle ABC \cong \angle IBC$ or $\angle BCA \cong \angle BCI$
C) $\overline{AB} \cong \overline{IB}$ or $\overline{CA} \cong \overline{CI}$
D) $\angle A \cong \angle I$

20) AAS



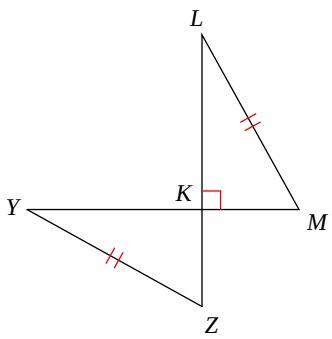

A) $\angle FED \cong \angle TEV$
B) $\overline{DF} \cong \overline{VT}$
C) $\overline{FE} \cong \overline{TE}$
D) $\angle F \cong \angle T$

21) LL



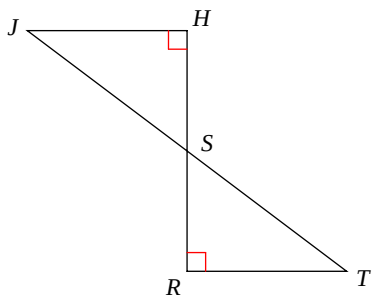

A) $\overline{HI} \cong \overline{HE}$
B) $\angle I \cong \angle E$
C) $\overline{JH} \cong \overline{DH}$
D) $\angle JHI \cong \angle DHE$ or $\angle J \cong \angle D$

22) HL



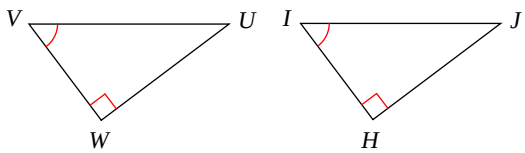

A) $\angle MKL \cong \angle ZKY$ or $\angle M \cong \angle Z$
B) $\overline{KL} \cong \overline{KY}$ or $\overline{MK} \cong \overline{ZK}$
C) $\overline{LM} \cong \overline{YZ}$
D) $\angle L \cong \angle Y$ or $\angle M \cong \angle Z$

23) HA




A) $\angle T \cong \angle J$
B) $\overline{TR} \cong \overline{JH}$
C) $\overline{ST} \cong \overline{SJ}$
D) $\angle RST \cong \angle HSJ$ or $\angle T \cong \angle J$

24) HA




A) $\angle W \cong \angle H$
B) $\angle W \cong \angle H$ or $\angle V \cong \angle I$
C) $\overline{VU} \cong \overline{IJ}$
D) $\overline{UW} \cong \overline{JH}$

# Answers to Assignment (ID: 1)

1) A
2) B
3) A
4) C
5) D
6) B
7) B
8) B
9) C
10) D
11) A
12) B
13) B
14) C
15) B
16) D
17) B
18) C
19) A
20) D
21) C
22) B
23) C
24) C

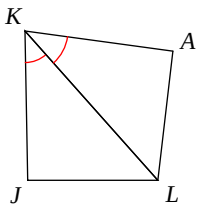
Geometry Name_____

# Assignment

Date_____ Period____

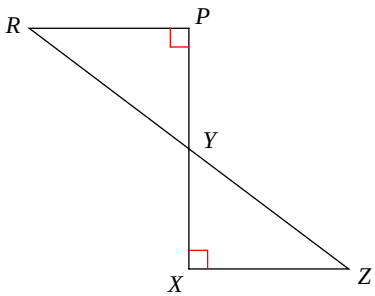
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) SAS



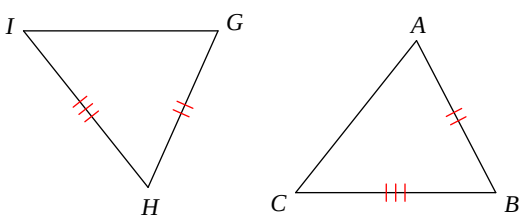

A) $\overline{JK} \cong \overline{AK}$ or $\overline{KL} \cong \overline{KL}$
B) $\overline{JK} \cong \overline{AK}$
C) $\angle J \cong \angle A$ or $\angle JKL \cong \angle AKL$
D) $\angle J \cong \angle A$

2) LA



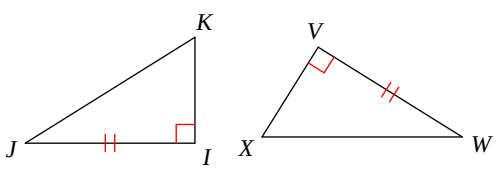

A) $\overline{YZ} \cong \overline{YR}$ or $\overline{ZX} \cong \overline{RP}$
B) $\overline{XY} \cong \overline{PY}$ or $\overline{ZX} \cong \overline{RP}$
C) $\angle X \cong \angle P$ or $\angle Z \cong \angle R$
D) $\overline{XY} \cong \overline{PY}$

3) SSS



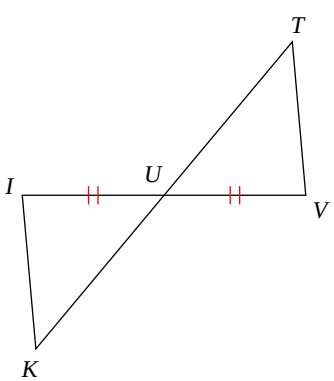

A) $\angle I \cong \angle C$
B) $\overline{GH} \cong \overline{AB}$
C) $\overline{GH} \cong \overline{AB}$ or $\overline{IG} \cong \overline{CA}$
D) $\overline{IG} \cong \overline{CA}$

4) HL



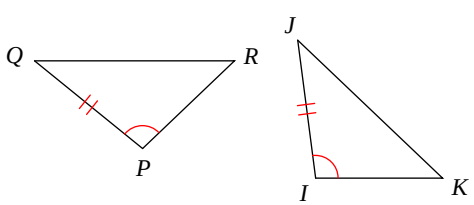

A) $\angle J \cong \angle W$
B) $\angle K \cong \angle X$
C) $\overline{JK} \cong \overline{WX}$
D) $\angle J \cong \angle W$ or $\angle K \cong \angle X$

5) ASA



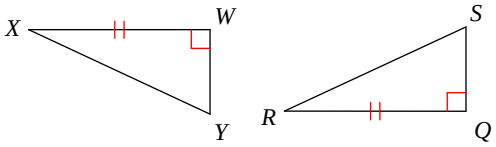

A) $\overline{TV} \cong \overline{KI}$
B) $\angle V \cong \angle I$ or $\angle T \cong \angle K$
C) $\angle V \cong \angle I$
D) $\overline{VU} \cong \overline{IU}$

6) ASA



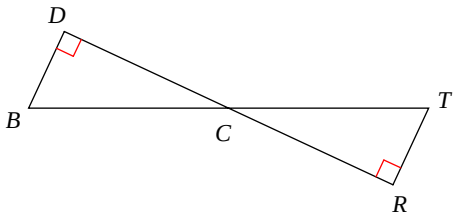

A) $\angle Q \cong \angle J$
B) $\overline{PQ} \cong \overline{IJ}$ or $\overline{QR} \cong \overline{JK}$
C) $\angle P \cong \angle I$ or $\angle Q \cong \angle J$
D) $\angle P \cong \angle I$

7) LL



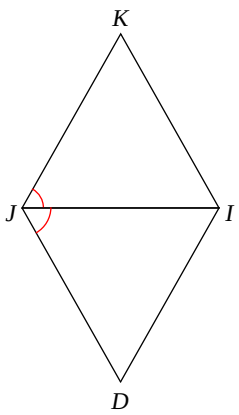

A) $\overline{XY} \cong \overline{RS}$
B) $\angle W \cong \angle Q$
C) $\overline{YW} \cong \overline{SQ}$
D) $\angle X \cong \angle R$ or $\angle Y \cong \angle S$

8) HA



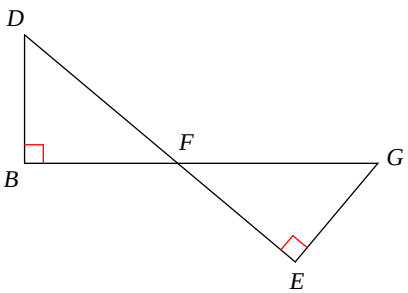

A) $\angle D \cong \angle R$
B) $\overline{CB} \cong \overline{CT}$
C) $\angle DCB \cong \angle RCT$
D) $\overline{BD} \cong \overline{TR}$

9) ASA



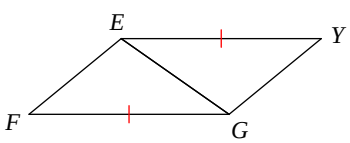

A) $\overline{IJ} \cong \overline{IJ}$
B) $\overline{IJ} \cong \overline{IJ}$ or $\overline{JK} \cong \overline{JD}$
C) $\angle KIJ \cong \angle DIJ$ or $\angle K \cong \angle D$
D) $\angle KIJ \cong \angle DIJ$

10) HA



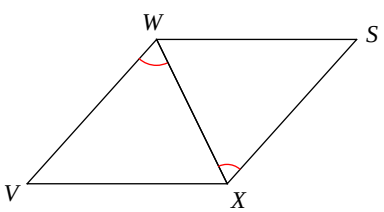

A) $\angle G \cong \angle D$
B) $\overline{GE} \cong \overline{DB}$
C) $\overline{FG} \cong \overline{FD}$
D) $\angle EFG \cong \angle BFD$ or $\angle G \cong \angle D$

11) SSS



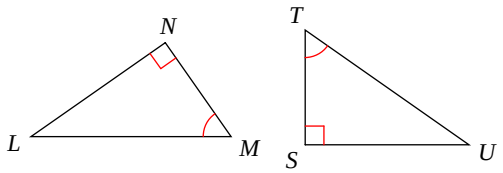

A) $\angle EGF \cong \angle GEY$ or $\angle FEG \cong \angle YGE$
B) $\overline{FE} \cong \overline{YG}$
C) $\angle F \cong \angle Y$
D) $\overline{GF} \cong \overline{EY}$ or $\overline{EG} \cong \overline{GE}$

12) AAS



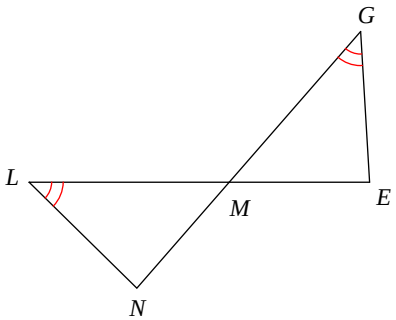

A) $\angle V \cong \angle S$
B) $\overline{VW} \cong \overline{SX}$
C) $\angle V \cong \angle S$ or $\angle VWX \cong \angle SXW$
D) $\overline{VW} \cong \overline{SX}$ or $\overline{XV} \cong \overline{WS}$

13) HA



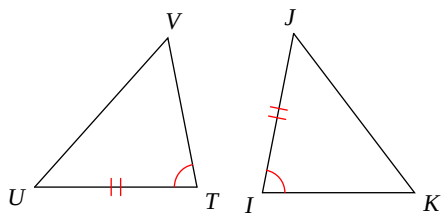

A) $\angle N \cong \angle S$
B) $\overline{ML} \cong \overline{TU}$
C) $\angle L \cong \angle U$
D) $\overline{LN} \cong \overline{US}$

14) ASA



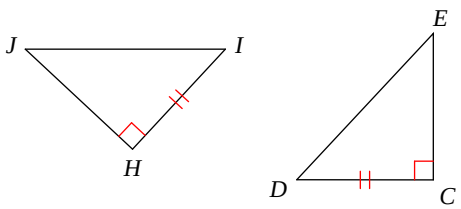

A) $\angle L \cong \angle G$ or $\angle LMN \cong \angle GME$
B) $\overline{NL} \cong \overline{EG}$
C) $\overline{LM} \cong \overline{GM}$ or $\overline{NL} \cong \overline{EG}$
D) $\overline{LM} \cong \overline{GM}$

15) ASA



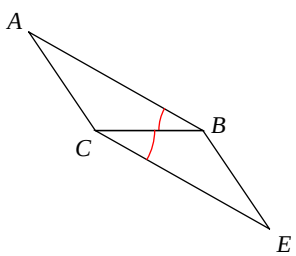

A) $\angle U \cong \angle J$
B) $\overline{UV} \cong \overline{JK}$
C) $\overline{VT} \cong \overline{KI}$
D) $\overline{TU} \cong \overline{IJ}$

16) LL



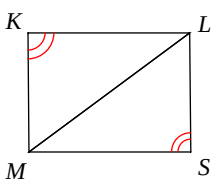

A) $\overline{JH} \cong \overline{EC}$
B) $\angle I \cong \angle D$ or $\angle J \cong \angle E$
C) $\angle I \cong \angle D$
D) $\overline{IJ} \cong \overline{DE}$

17) SAS



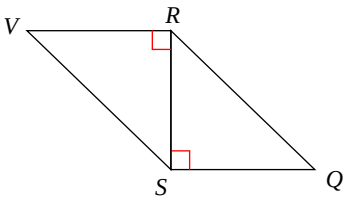

A) $\overline{CA} \cong \overline{BE}$
B) $\angle A \cong \angle E$ or $\angle ABC \cong \angle ECB$
C) $\overline{AB} \cong \overline{EC}$
D) $\overline{BC} \cong \overline{CB}$ or $\overline{CA} \cong \overline{BE}$

18) AAS



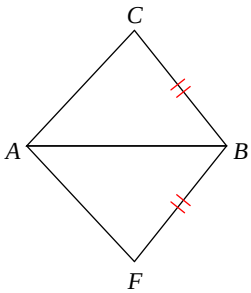

A) $\angle K \cong \angle S$ or $\angle LMK \cong \angle MLS$
B) $\angle KLM \cong \angle SML$ or $\angle LMK \cong \angle MLS$
C) $\overline{KL} \cong \overline{SM}$
D) $\overline{KL} \cong \overline{SM}$ or $\overline{MK} \cong \overline{LS}$

19) LA



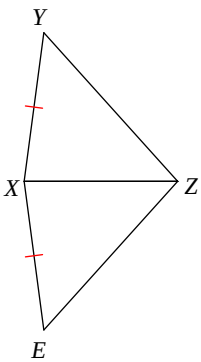

A) $\angle SRQ \cong \angle RSV$ or $\angle Q \cong \angle V$
B) $\overline{SR} \cong \overline{RS}$ or $\overline{QS} \cong \overline{VR}$
C) $\angle QSR \cong \angle VRS$ or $\angle SRQ \cong \angle RSV$
D) $\overline{RQ} \cong \overline{SV}$ or $\overline{QS} \cong \overline{VR}$

20) SAS



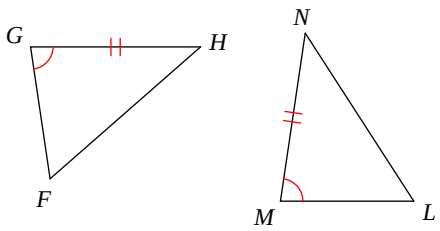

A) $\overline{AC} \cong \overline{AF}$
B) $\overline{BA} \cong \overline{BA}$
C) $\angle C \cong \angle F$ or $\angle BAC \cong \angle BAF$
D) $\angle CBA \cong \angle FBA$

21) SSS



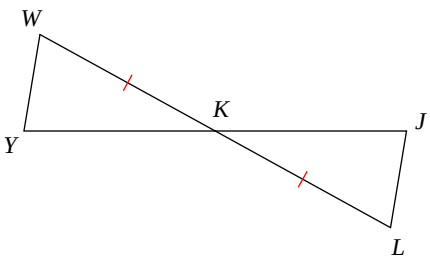

A) $\angle ZXY \cong \angle ZXE$ or $\angle YZX \cong \angle EZX$
B) $\angle YZX \cong \angle EZX$
C) $\overline{YZ} \cong \overline{EZ}$
D) $\overline{XY} \cong \overline{XE}$ or $\overline{YZ} \cong \overline{EZ}$

22) AAS



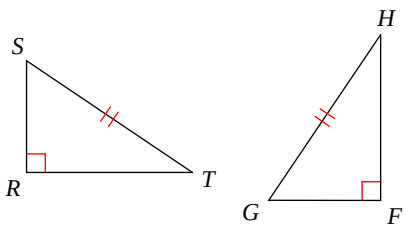

A) $\overline{GH} \cong \overline{MN}$
B) $\angle H \cong \angle N$
C) $\angle F \cong \angle L$ or $\angle G \cong \angle M$
D) $\angle F \cong \angle L$

23) SAS




A) $\overline{KJ} \cong \overline{KY}$
B) $\angle J \cong \angle Y$
C) $\overline{JL} \cong \overline{YW}$
D) $\overline{LK} \cong \overline{WK}$ or $\overline{JL} \cong \overline{YW}$

24) HA




A) $\angle R \cong \angle F$ or $\angle S \cong \angle G$
B) $\overline{RS} \cong \overline{FG}$ or $\overline{ST} \cong \overline{GH}$
C) $\angle S \cong \angle G$ or $\angle T \cong \angle H$
D) $\angle S \cong \angle G$

# Answers to Assignment (ID: 2)

1) B
2) B
3) D
4) C
5) C
6) A
7) C
8) B
9) D
10) C
11) B
12) A
13) B
14) D
15) A
16) A
17) C
18) B
19) A
20) D
21) C
22) D
23) A
24) C

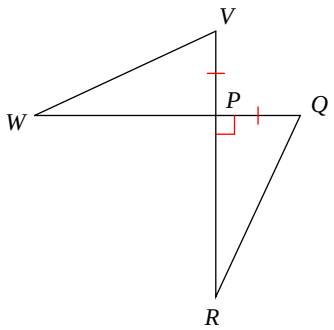
Geometry Name_____

# Assignment

Date_____ Period____

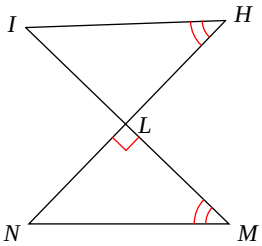
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) HL



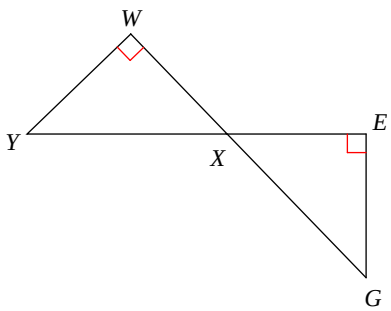

A) $\overline{RP} \cong \overline{WP}$
B) $\overline{PQ} \cong \overline{PV}$
C) $\angle R \cong \angle W$
D) $\overline{QR} \cong \overline{VW}$

2) HA



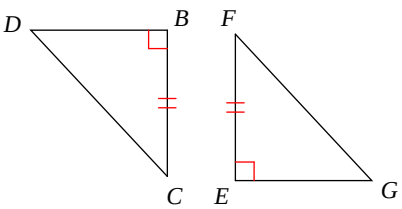

A) $\overline{LM} \cong \overline{LH}$ or $\overline{NL} \cong \overline{IL}$
B) $\overline{NL} \cong \overline{IL}$
C) $\overline{MN} \cong \overline{HI}$
D) $\angle M \cong \angle H$

3) LA



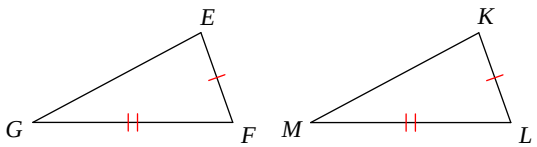

A) $\overline{WX} \cong \overline{EX}$ or $\overline{YW} \cong \overline{GE}$
B) $\angle W \cong \angle E$
C) $\angle Y \cong \angle G$
D) $\overline{XY} \cong \overline{XG}$ or $\overline{YW} \cong \overline{GE}$

4) LA



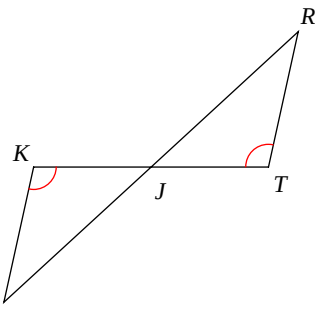

A) $\angle B \cong \angle E$ or $\angle D \cong \angle G$
B) $\overline{CD} \cong \overline{FG}$
C) $\angle C \cong \angle F$ or $\angle D \cong \angle G$
D) $\overline{CD} \cong \overline{FG}$ or $\overline{DB} \cong \overline{GE}$

5) SSS



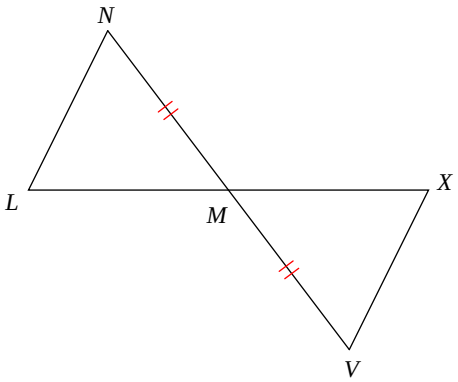

A) $\overline{GE} \cong \overline{MK}$
B) $\angle F \cong \angle L$
C) $\overline{EF} \cong \overline{KL}$
D) $\angle F \cong \angle L$ or $\angle G \cong \angle M$

6) ASA



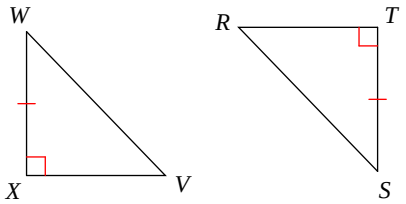

A) $\angle I \cong \angle R$
B) $\overline{KJ} \cong \overline{TJ}$ or $\overline{JI} \cong \overline{JR}$
C) $\overline{KJ} \cong \overline{TJ}$
D) $\overline{JI} \cong \overline{JR}$

7) SAS



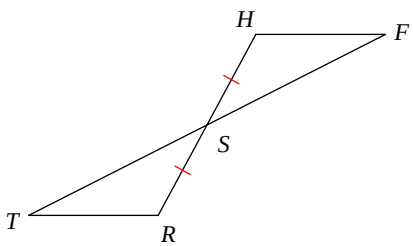

A) $\overline{NM} \cong \overline{VM}$
B) $\overline{ML} \cong \overline{MX}$
C) $\angle NML \cong \angle VMX$ or $\angle L \cong \angle X$
D) $\angle L \cong \angle X$

8) HL



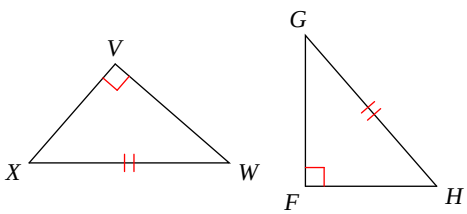

A) $\angle X \cong \angle T$
B) $\overline{WV} \cong \overline{SR}$
C) $\angle V \cong \angle R$
D) $\overline{VX} \cong \overline{RT}$

9) AAS



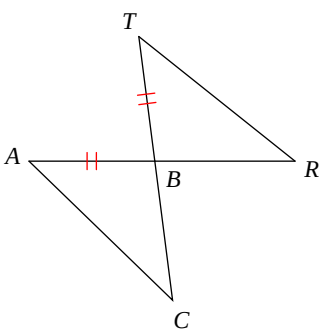

A) $\angle T \cong \angle F$
B) $\angle T \cong \angle F$ or $\angle TSR \cong \angle FSH$
C) $\angle TSR \cong \angle FSH$
D) $\overline{TS} \cong \overline{FS}$

10) HL



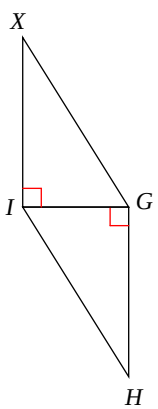

A) $\overline{WX} \cong \overline{GH}$ or $\overline{XV} \cong \overline{HF}$
B) $\angle V \cong \angle F$ or $\angle W \cong \angle G$
C) $\overline{VW} \cong \overline{FG}$ or $\overline{XV} \cong \overline{HF}$
D) $\overline{XV} \cong \overline{HF}$

11) ASA



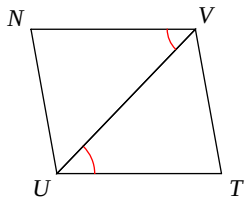

A) $\overline{AB} \cong \overline{TB}$
B) $\angle ABC \cong \angle TBR$
C) $\overline{CA} \cong \overline{RT}$
D) $\angle A \cong \angle T$

12) LL



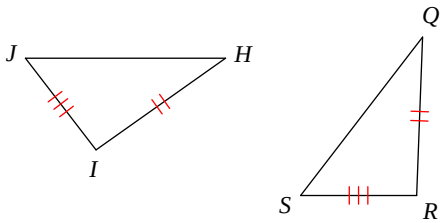

A) $\angle H \cong \angle X$
B) $\angle IGH \cong \angle GIX$
C) $\overline{GH} \cong \overline{IX}$ or $\overline{HI} \cong \overline{XG}$
D) $\overline{GH} \cong \overline{IX}$

13) AAS



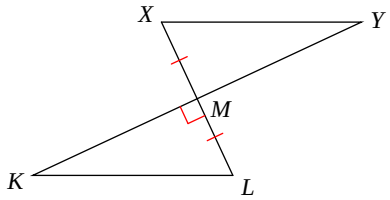

A) $\angle UVT \cong \angle VUN$
B) $\overline{TU} \cong \overline{NV}$ or $\overline{VT} \cong \overline{UN}$
C) $\angle T \cong \angle N$
D) $\angle TUV \cong \angle NVU$

14) SSS



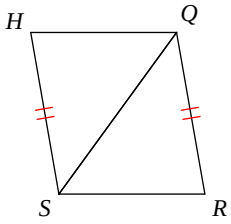

A) $\angle H \cong \angle Q$
B) $\angle I \cong \angle R$
C) $\overline{JH} \cong \overline{SQ}$
D) $\overline{IJ} \cong \overline{RS}$ or $\overline{JH} \cong \overline{SQ}$

15) LA



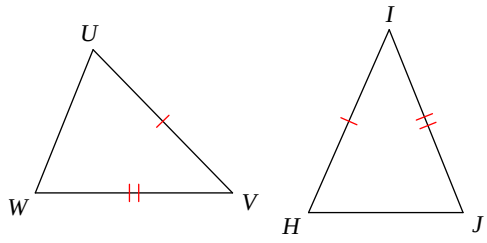

A) $\angle K \cong \angle Y$
B) $\angle L \cong \angle X$ or $\angle K \cong \angle Y$
C) $\overline{ML} \cong \overline{MX}$ or $\overline{KM} \cong \overline{YM}$
D) $\angle KML \cong \angle YMX$ or $\angle L \cong \angle X$

16) SSS



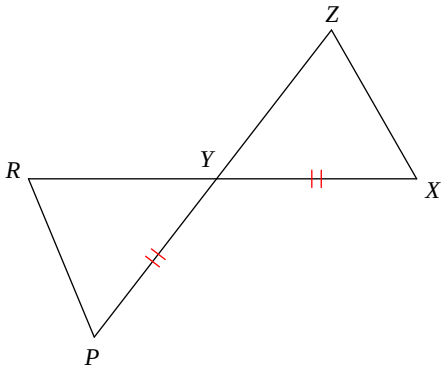

A) $\overline{RS} \cong \overline{HQ}$
B) $\overline{SQ} \cong \overline{QS}$
C) $\overline{QR} \cong \overline{SH}$ or $\overline{RS} \cong \overline{HQ}$
D) $\angle R \cong \angle H$

17) SAS



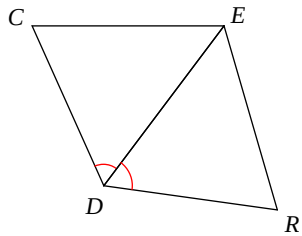

A) $\angle W \cong \angle J$
B) $\overline{WU} \cong \overline{JH}$
C) $\angle V \cong \angle I$
D) $\overline{UV} \cong \overline{HI}$

18) SAS



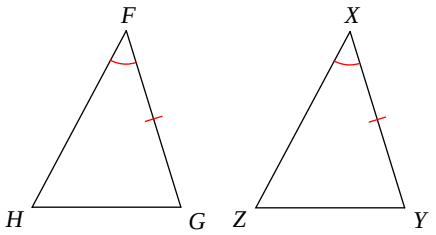

A) $\angle XYZ \cong \angle PYR$
B) $\overline{XY} \cong \overline{PY}$
C) $\overline{XY} \cong \overline{PY}$ or $\overline{YZ} \cong \overline{YR}$
D) $\overline{YZ} \cong \overline{YR}$

19) ASA



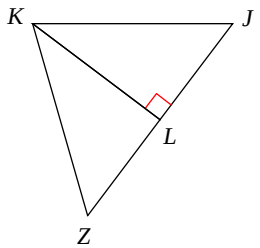

A) $\angle EDC \cong \angle EDR$ or $\angle C \cong \angle R$
B) $\angle CED \cong \angle RED$
C) $\angle C \cong \angle R$
D) $\overline{DC} \cong \overline{DR}$ or $\overline{CE} \cong \overline{RE}$

20) ASA



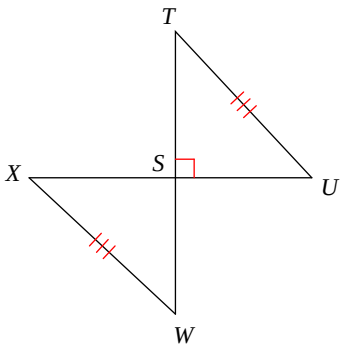

A) $\angle G \cong \angle Y$
B) $\angle F \cong \angle X$ or $\angle H \cong \angle Z$
C) $\angle H \cong \angle Z$
D) $\angle F \cong \angle X$

21) HL



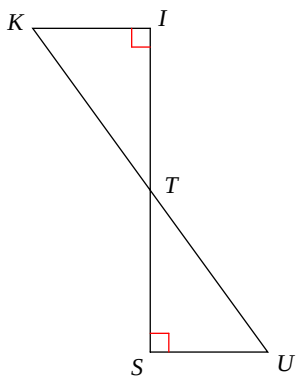

A) $\angle J \cong \angle Z$
B) $\angle JLK \cong \angle ZLK$
C) $\overline{JL} \cong \overline{ZL}$
D) $\overline{KJ} \cong \overline{KZ}$

22) HL



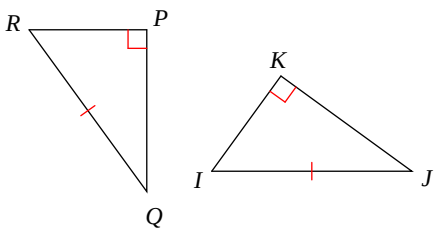

A) $\angle UST \cong \angle WSX$
B) $\angle UST \cong \angle WSX$ or $\angle T \cong \angle X$
C) $\angle T \cong \angle X$ or $\angle U \cong \angle W$
D) $\overline{ST} \cong \overline{SX}$ or $\overline{US} \cong \overline{WS}$

23) LA




A) $\overline{ST} \cong \overline{IT}$ or $\overline{US} \cong \overline{KI}$
B) $\angle STU \cong \angle ITK$ or $\angle U \cong \angle K$
C) $\angle S \cong \angle I$ or $\angle STU \cong \angle ITK$
D) $\overline{ST} \cong \overline{IT}$ or $\overline{TU} \cong \overline{TK}$

24) HA




A) $\angle P \cong \angle K$
B) $\overline{QR} \cong \overline{JI}$ or $\overline{RP} \cong \overline{IK}$
C) $\overline{RP} \cong \overline{IK}$
D) $\angle Q \cong \angle J$ or $\angle R \cong \angle I$

# Answers to Assignment (ID: 3)

1) D
2) C
3) A
4) C
5) A
6) C
7) B
8) B
9) A
10) C
11) D
12) D
13) C
14) C
15) B
16) A
17) C
18) D
19) B
20) A
21) D
22) D
23) A
24) D

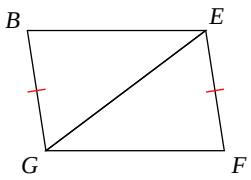
Geometry Name_____

# Assignment

Date_____ Period____

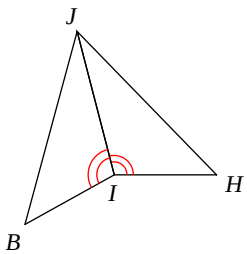
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) SSS



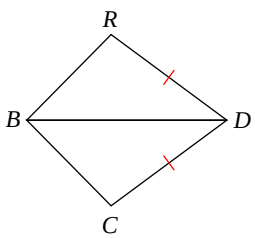

A) $\overline{FG} \cong \overline{BE}$
B) $\angle FGE \cong \angle BEG$
C) $\angle F \cong \angle B$ or $\angle FGE \cong \angle BEG$
D) $\overline{GE} \cong \overline{EG}$

2) SAS



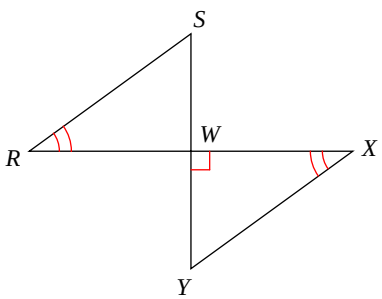

A) $\angle H \cong \angle B$
B) $\overline{HI} \cong \overline{BI}$
C) $\overline{IJ} \cong \overline{IJ}$
D) $\overline{IJ} \cong \overline{IJ}$ or $\overline{JH} \cong \overline{JB}$

3) SSS



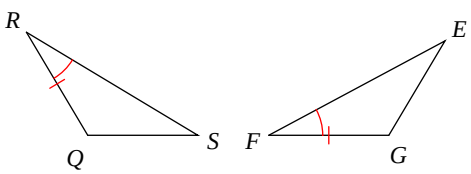

A) $\angle BDC \cong \angle BDR$
B) $\overline{CB} \cong \overline{RB}$
C) $\overline{DC} \cong \overline{DR}$ or $\overline{CB} \cong \overline{RB}$
D) $\overline{DC} \cong \overline{DR}$ or $\overline{BD} \cong \overline{BD}$

4) LA



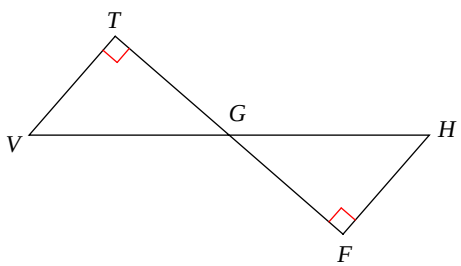

A) $\overline{WX} \cong \overline{WR}$ or $\overline{YW} \cong \overline{SW}$
B) $\overline{XY} \cong \overline{RS}$
C) $\overline{WX} \cong \overline{WR}$ or $\overline{XY} \cong \overline{RS}$
D) $\angle X \cong \angle R$ or $\angle Y \cong \angle S$

5) SAS



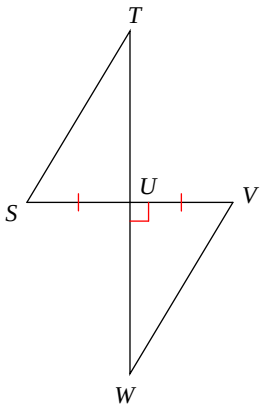

A) $\angle R \cong \angle F$
B) $\angle S \cong \angle E$
C) $\overline{RS} \cong \overline{FE}$
D) $\overline{SQ} \cong \overline{EG}$

6) HA



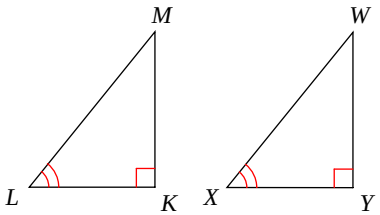

A) $\angle FGH \cong \angle TGV$
B) $\overline{FG} \cong \overline{TG}$ or $\overline{HF} \cong \overline{VT}$
C) $\overline{GH} \cong \overline{GV}$
D) $\angle F \cong \angle T$

7) LL



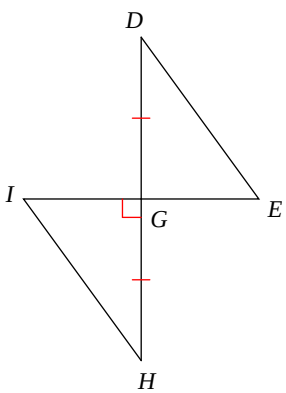

A) $\overline{WU} \cong \overline{TU}$
B) $\overline{UV} \cong \overline{US}$ or $\overline{WU} \cong \overline{TU}$
C) $\overline{VW} \cong \overline{ST}$
D) $\angle WUV \cong \angle TUS$ or $\angle W \cong \angle T$

8) LA



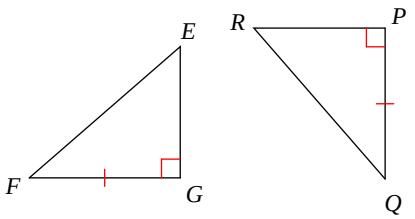

A) $\overline{KL} \cong \overline{YX}$ or $\overline{MK} \cong \overline{WY}$
B) $\overline{KL} \cong \overline{YX}$ or $\overline{LM} \cong \overline{XW}$
C) $\overline{MK} \cong \overline{WY}$
D) $\angle K \cong \angle Y$ or $\angle L \cong \angle X$

9) HL



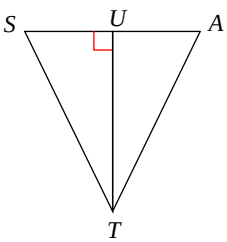

A) $\overline{HI} \cong \overline{DE}$
B) $\overline{GH} \cong \overline{GD}$ or $\overline{HI} \cong \overline{DE}$
C) $\overline{GH} \cong \overline{GD}$
D) $\overline{IG} \cong \overline{EG}$

10) LL



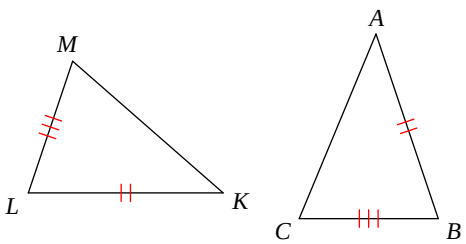

A) $\overline{FE} \cong \overline{QR}$
B) $\overline{FE} \cong \overline{QR}$ or $\overline{EG} \cong \overline{RP}$
C) $\overline{GF} \cong \overline{PQ}$ or $\overline{FE} \cong \overline{QR}$
D) $\overline{EG} \cong \overline{RP}$

11) LA



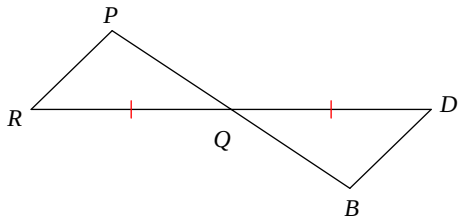

A) $\overline{TS} \cong \overline{TA}$
B) $\angle SUT \cong \angle AUT$ or $\angle UTS \cong \angle UTA$
C) $\angle UTS \cong \angle UTA$ or $\angle S \cong \angle A$
D) $\angle SUT \cong \angle AUT$ or $\angle S \cong \angle A$

12) SSS



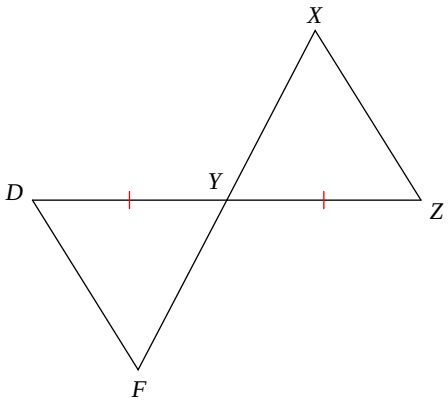

A) $\overline{KL} \cong \overline{AB}$
B) $\angle M \cong \angle C$
C) $\overline{MK} \cong \overline{CA}$
D) $\overline{KL} \cong \overline{AB}$ or $\overline{MK} \cong \overline{CA}$

13) AAS



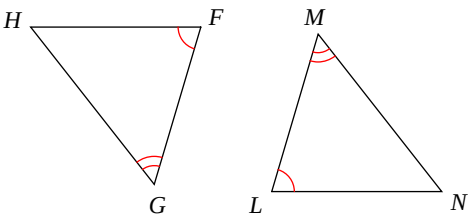

A) $\overline{QR} \cong \overline{QD}$ or $\overline{RP} \cong \overline{DB}$
B) $\overline{PQ} \cong \overline{BQ}$
C) $\overline{PQ} \cong \overline{BQ}$ or $\overline{RP} \cong \overline{DB}$
D) $\angle P \cong \angle B$

14) ASA



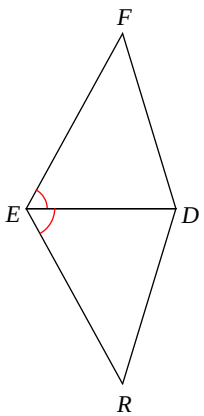

A) $\angle ZYX \cong \angle DYF$
B) $\angle Z \cong \angle D$
C) $\angle Z \cong \angle D$ or $\angle X \cong \angle F$
D) $\overline{ZY} \cong \overline{DY}$ or $\overline{XZ} \cong \overline{FD}$

15) ASA



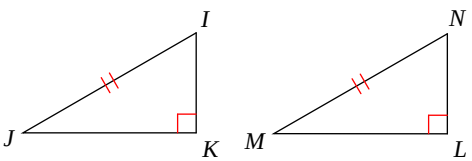

A) $\overline{GH} \cong \overline{MN}$
B) $\overline{FG} \cong \overline{LM}$
C) $\angle F \cong \angle L$ or $\angle G \cong \angle M$
D) $\angle F \cong \angle L$

16) ASA



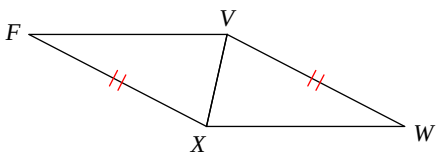

A) $\overline{DE} \cong \overline{DE}$ or $\overline{EF} \cong \overline{ER}$
B) $\overline{EF} \cong \overline{ER}$ or $\overline{FD} \cong \overline{RD}$
C) $\angle FDE \cong \angle RDE$
D) $\overline{DE} \cong \overline{DE}$ or $\overline{FD} \cong \overline{RD}$

17) HA



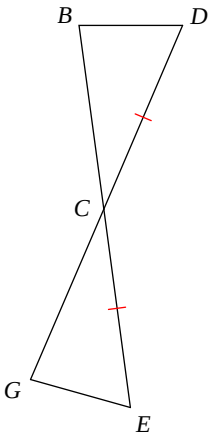

A) $\overline{IK} \cong \overline{NL}$
B) $\angle I \cong \angle N$
C) $\angle J \cong \angle M$ or $\angle I \cong \angle N$
D) $\angle K \cong \angle L$ or $\angle J \cong \angle M$

18) SSS



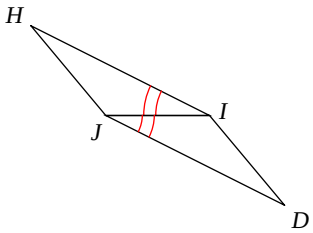

A) $\angle XVW \cong \angle VXF$
B) $\overline{WX} \cong \overline{FV}$
C) $\angle W \cong \angle F$
D) $\angle W \cong \angle F$ or $\angle WXV \cong \angle FVX$

19) SAS



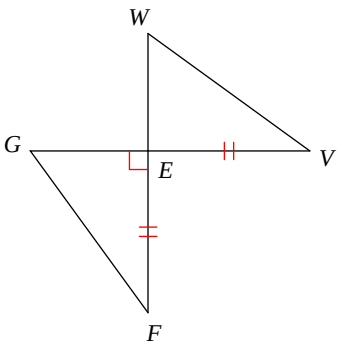

A) $\angle DCB \cong \angle ECG$
B) $\overline{CB} \cong \overline{CG}$
C) $\overline{DC} \cong \overline{EC}$ or $\overline{BD} \cong \overline{GE}$
D) $\overline{DC} \cong \overline{EC}$ or $\overline{CB} \cong \overline{CG}$

20) AAS



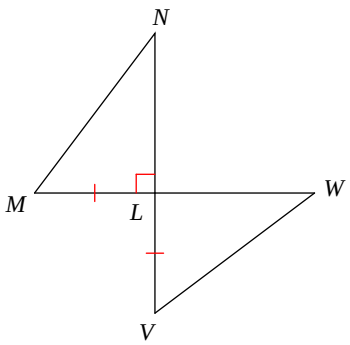

A) $\overline{JH} \cong \overline{ID}$
B) $\overline{HI} \cong \overline{DJ}$ or $\overline{JH} \cong \overline{ID}$
C) $\overline{HI} \cong \overline{DJ}$
D) $\angle H \cong \angle D$

21) HL



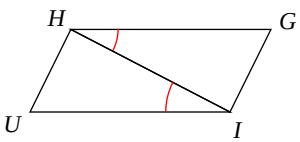

A) $\overline{FG} \cong \overline{VW}$
B) $\overline{GE} \cong \overline{WE}$
C) $\angle GEF \cong \angle WEV$ or $\angle F \cong \angle V$
D) $\overline{EF} \cong \overline{EV}$

22) HL



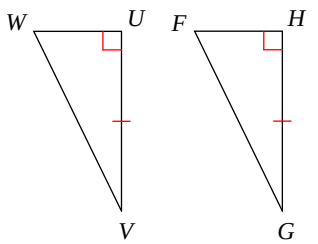

A) $\overline{NL} \cong \overline{WL}$
B) $\angle N \cong \angle W$
C) $\angle M \cong \angle V$
D) $\overline{MN} \cong \overline{VW}$

23) ASA




A) $\overline{HG} \cong \overline{IU}$ or $\overline{GI} \cong \overline{UH}$
B) $\overline{HG} \cong \overline{IU}$
C) $\angle GIH \cong \angle UHI$
D) $\overline{IH} \cong \overline{HI}$

24) LA




A) $\overline{UV} \cong \overline{HG}$ or $\overline{VW} \cong \overline{GF}$
B) $\angle V \cong \angle G$ or $\angle W \cong \angle F$
C) $\angle U \cong \angle H$
D) $\overline{UV} \cong \overline{HG}$

# Answers to Assignment (ID: 4)

1) A
2) B
3) B
4) A
5) C
6) C
7) A
8) A
9) A
10) D
11) C
12) C
13) D
14) B
15) B
16) C
17) C
18) B
19) B
20) D
21) A
22) D
23) C
24) B

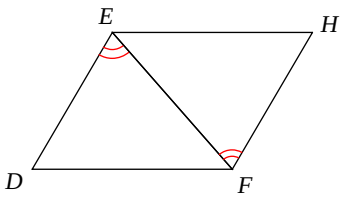
Geometry Name_____

# Assignment

Date_____ Period____

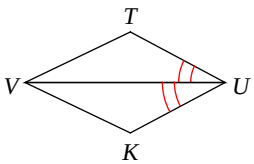
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) AAS



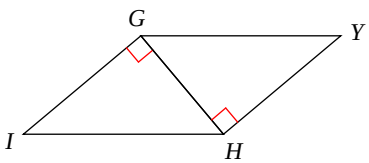

A) $\angle D \cong \angle H$
B) $\overline{DE} \cong \overline{HF}$
C) $\angle EFD \cong \angle FEH$
D) $\angle DEF \cong \angle HFE$

2) SAS



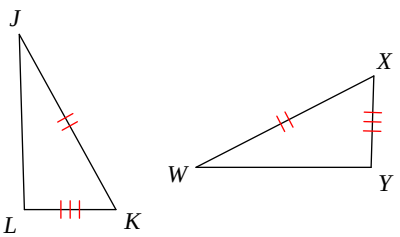

A) $\angle TUV \cong \angle KUV$
B) $\overline{TU} \cong \overline{KU}$
C) $\angle T \cong \angle K$ or $\angle UVT \cong \angle UVK$
D) $\overline{VT} \cong \overline{VK}$

3) HL



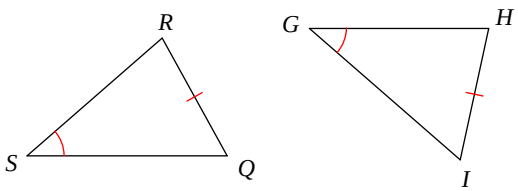

A) $\angle GHI \cong \angle HGY$
B) $\overline{HI} \cong \overline{GY}$
C) $\overline{IG} \cong \overline{YH}$
D) $\overline{GH} \cong \overline{HG}$

4) SAS



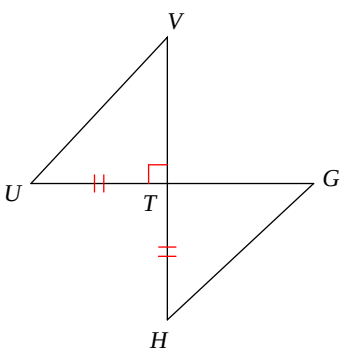

A) $\overline{JK} \cong \overline{WX}$
B) $\angle K \cong \angle X$
C) $\overline{KL} \cong \overline{XY}$
D) $\angle L \cong \angle Y$

5) AAS



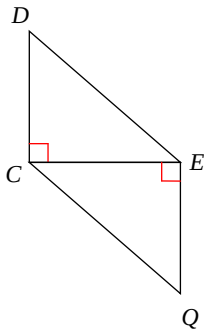

A) $\angle Q \cong \angle I$
B) $\angle S \cong \angle G$ or $\angle R \cong \angle H$
C) $\angle R \cong \angle H$ or $\angle Q \cong \angle I$
D) $\angle S \cong \angle G$

6) HL



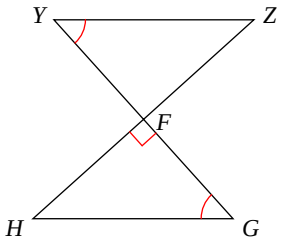

A) $\overline{TU} \cong \overline{TH}$ or $\overline{UV} \cong \overline{HG}$
B) $\overline{VT} \cong \overline{GT}$
C) $\angle V \cong \angle G$
D) $\overline{UV} \cong \overline{HG}$

7) LL



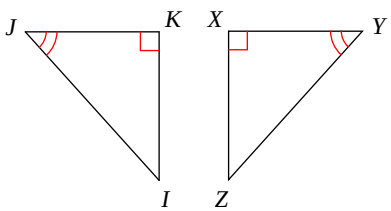

A) $\overline{DE} \cong \overline{QC}$
B) $\angle ECD \cong \angle CEQ$
C) $\overline{CD} \cong \overline{EQ}$
D) $\angle D \cong \angle Q$ or $\angle DEC \cong \angle QCE$

8) LA



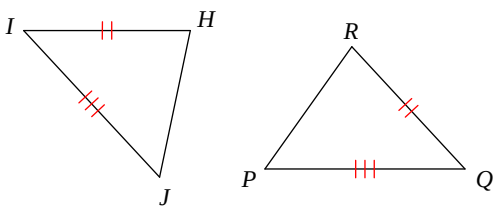

A) $\overline{FG} \cong \overline{FY}$ or $\overline{HF} \cong \overline{ZF}$
B) $\overline{FG} \cong \overline{FY}$
C) $\overline{GH} \cong \overline{YZ}$ or $\overline{HF} \cong \overline{ZF}$
D) $\overline{FG} \cong \overline{FY}$ or $\overline{GH} \cong \overline{YZ}$

9) LA



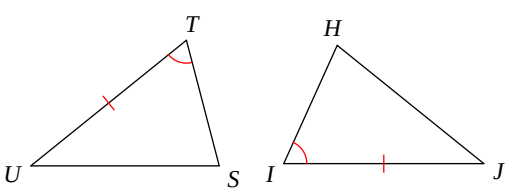

A) $\overline{JI} \cong \overline{YZ}$
B) $\overline{KJ} \cong \overline{XY}$ or $\overline{IK} \cong \overline{ZX}$
C) $\angle K \cong \angle X$ or $\angle J \cong \angle Y$
D) $\overline{KJ} \cong \overline{XY}$

10) SSS



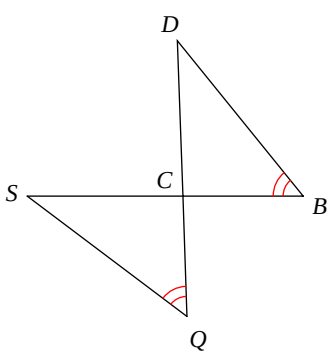

A) $\angle J \cong \angle P$
B) $\overline{IJ} \cong \overline{QP}$
C) $\overline{IJ} \cong \overline{QP}$ or $\overline{JH} \cong \overline{PR}$
D) $\overline{JH} \cong \overline{PR}$

11) SAS



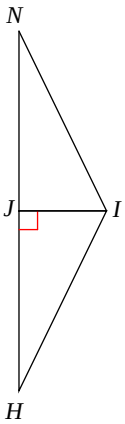

A) $\angle S \cong \angle H$
B) $\angle U \cong \angle J$ or $\angle T \cong \angle I$
C) $\angle T \cong \angle I$
D) $\overline{TS} \cong \overline{IH}$

12) ASA



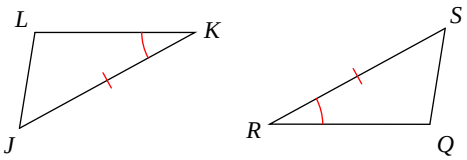

A) $\overline{DB} \cong \overline{SQ}$
B) $\overline{BC} \cong \overline{QC}$
C) $\angle D \cong \angle S$
D) $\overline{CD} \cong \overline{CS}$

13) LA



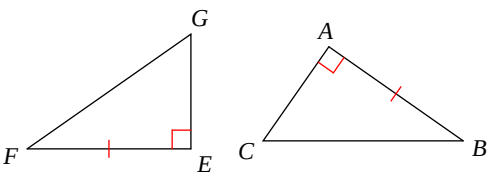

A) $\angle JIH \cong \angle JIN$
B) $\angle JIH \cong \angle JIN$ or $\angle H \cong \angle N$
C) $\angle HJI \cong \angle NJI$ or $\angle H \cong \angle N$
D) $\overline{JI} \cong \overline{JI}$ or $\overline{IH} \cong \overline{IN}$

14) AAS



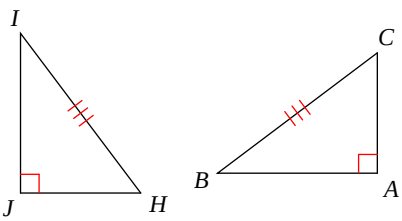

A) $\angle J \cong \angle S$
B) $\angle K \cong \angle R$ or $\angle J \cong \angle S$
C) $\angle L \cong \angle Q$
D) $\overline{LK} \cong \overline{QR}$ or $\overline{JL} \cong \overline{SQ}$

15) HL



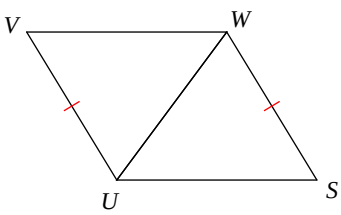

A) $\overline{EF} \cong \overline{AB}$
B) $\overline{GE} \cong \overline{CA}$
C) $\angle E \cong \angle A$
D) $\overline{FG} \cong \overline{BC}$

16) HL



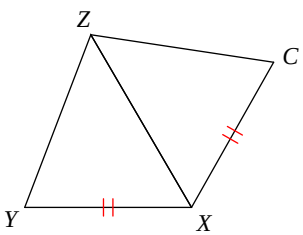

A) $\overline{JI} \cong \overline{AB}$ or $\overline{HJ} \cong \overline{CA}$
B) $\angle I \cong \angle B$ or $\angle H \cong \angle C$
C) $\angle J \cong \angle A$ or $\angle H \cong \angle C$
D) $\overline{JI} \cong \overline{AB}$ or $\overline{IH} \cong \overline{BC}$

17) SSS



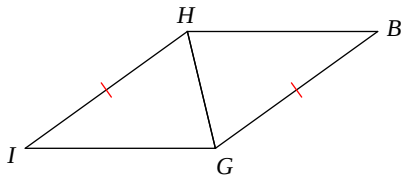

A) $\overline{VW} \cong \overline{SU}$
B) $\angle V \cong \angle S$
C) $\overline{VW} \cong \overline{SU}$ or $\overline{WU} \cong \overline{UW}$
D) $\overline{UV} \cong \overline{WS}$

18) SSS



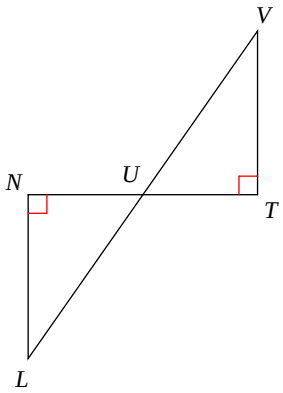

A) $\overline{YZ} \cong \overline{CZ}$
B) $\angle YZX \cong \angle CZX$
C) $\overline{XY} \cong \overline{XC}$ or $\overline{ZX} \cong \overline{ZX}$
D) $\angle Y \cong \angle C$ or $\angle YZX \cong \angle CZX$

19) SAS



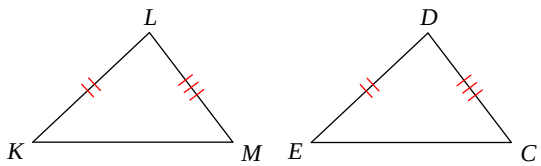

A) $\angle IHG \cong \angle BGH$
B) $\overline{IH} \cong \overline{BG}$ or $\overline{HG} \cong \overline{GH}$
C) $\overline{HG} \cong \overline{GH}$ or $\overline{GI} \cong \overline{HB}$
D) $\angle I \cong \angle B$ or $\angle IHG \cong \angle BGH$

20) HA



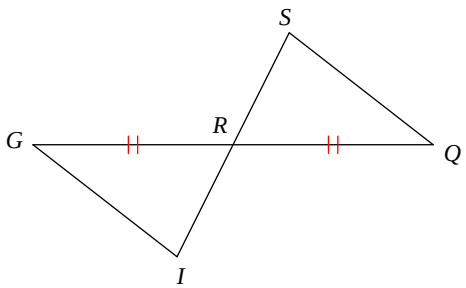

A) $\overline{UV} \cong \overline{UL}$
B) $\overline{UV} \cong \overline{UL}$ or $\overline{VT} \cong \overline{LN}$
C) $\angle T \cong \angle N$ or $\angle V \cong \angle L$
D) $\angle V \cong \angle L$

21) SSS



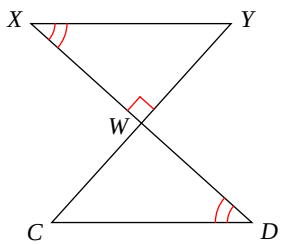

A) $\overline{KL} \cong \overline{ED}$ or $\overline{MK} \cong \overline{CE}$
B) $\overline{MK} \cong \overline{CE}$
C) $\angle M \cong \angle C$
D) $\angle K \cong \angle E$

22) SAS



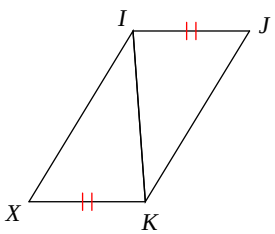

A) $\overline{RS} \cong \overline{RI}$
B) $\angle Q \cong \angle G$
C) $\overline{QR} \cong \overline{GR}$
D) $\overline{RS} \cong \overline{RI}$ or $\overline{SQ} \cong \overline{IG}$

23) HA




A) $\angle YWX \cong \angle CWD$ or $\angle X \cong \angle D$
B) $\overline{XY} \cong \overline{DC}$
C) $\overline{WX} \cong \overline{WD}$
D) $\angle X \cong \angle D$

24) SSS




A) $\angle JKI \cong \angle XIK$
B) $\angle KIJ \cong \angle IKX$ or $\angle JKI \cong \angle XIK$
C) $\overline{IJ} \cong \overline{KX}$
D) $\overline{JK} \cong \overline{XI}$

# Answers to Assignment (ID: 5)

1) A
2) B
3) B
4) B
5) C
6) D
7) C
8) A
9) B
10) D
11) D
12) B
13) B
14) C
15) D
16) A
17) A
18) A
19) A
20) A
21) B
22) A
23) B
24) D

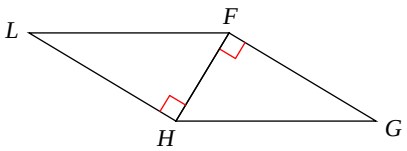
Geometry Name_____

# Assignment

Date_____ Period____

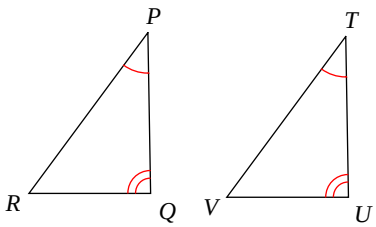
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) LL



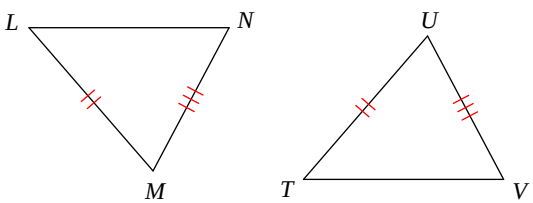

A) $\angle G \cong \angle L$
B) $\angle HFG \cong \angle FHL$ or $\angle GHF \cong \angle LFH$
C) $\overline{FG} \cong \overline{HL}$
D) $\overline{GH} \cong \overline{LF}$

2) AAS



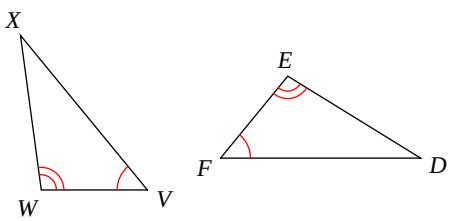

A) $\angle Q \cong \angle U$
B) $\overline{QR} \cong \overline{UV}$
C) $\overline{PQ} \cong \overline{TU}$ or $\overline{QR} \cong \overline{UV}$
D) $\overline{QR} \cong \overline{UV}$ or $\overline{RP} \cong \overline{VT}$

3) SSS



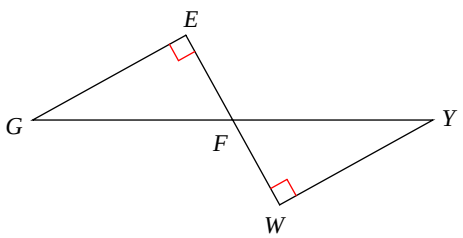

A) $\angle M \cong \angle U$
B) $\overline{NL} \cong \overline{VT}$
C) $\angle L \cong \angle T$
D) $\angle N \cong \angle V$

4) ASA



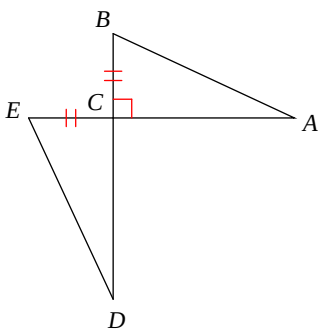

A) $\angle W \cong \angle E$
B) $\overline{VW} \cong \overline{FE}$
C) $\overline{XV} \cong \overline{DF}$
D) $\angle X \cong \angle D$

5) HA



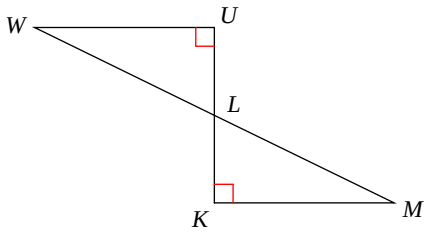

A) $\overline{EF} \cong \overline{WF}$
B) $\overline{FG} \cong \overline{FY}$
C) $\angle EFG \cong \angle WFY$
D) $\angle EFG \cong \angle WFY$ or $\angle G \cong \angle Y$

6) LL



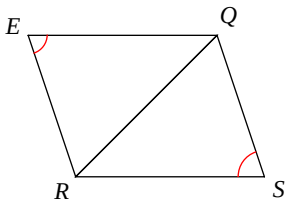

A) $\overline{BA} \cong \overline{ED}$
B) $\overline{CB} \cong \overline{CE}$ or $\overline{AC} \cong \overline{DC}$
C) $\overline{CB} \cong \overline{CE}$
D) $\overline{AC} \cong \overline{DC}$

7) LA



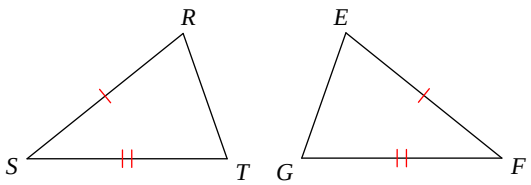

A) $\angle KLM \cong \angle ULW$ or $\angle M \cong \angle W$
B) $\angle K \cong \angle U$ or $\angle M \cong \angle W$
C) $\overline{KL} \cong \overline{UL}$ or $\overline{MK} \cong \overline{WU}$
D) $\angle M \cong \angle W$

8) AAS



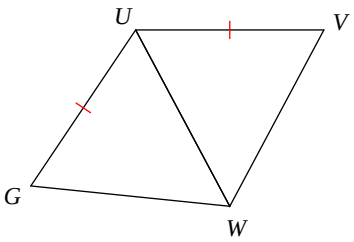

A) $\angle SRQ \cong \angle EQR$
B) $\angle SRQ \cong \angle EQR$ or $\angle RQS \cong \angle QRE$
C) $\overline{SR} \cong \overline{EQ}$ or $\overline{RQ} \cong \overline{QR}$
D) $\angle S \cong \angle E$ or $\angle RQS \cong \angle QRE$

9) SSS



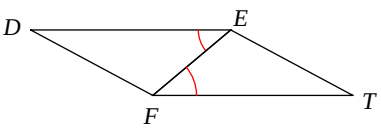

A) $\overline{RS} \cong \overline{EF}$
B) $\angle S \cong \angle F$
C) $\angle R \cong \angle E$ or $\angle S \cong \angle F$
D) $\overline{TR} \cong \overline{GE}$

10) SSS



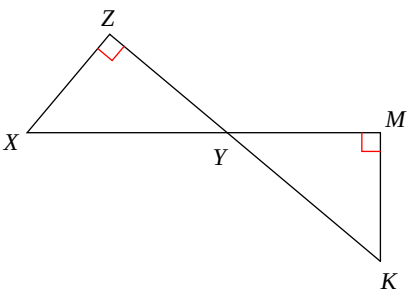

A) $\overline{VW} \cong \overline{GW}$
B) $\overline{UV} \cong \overline{UG}$ or $\overline{VW} \cong \overline{GW}$
C) $\angle WUV \cong \angle WUG$
D) $\angle WUV \cong \angle WUG$ or $\angle VWU \cong \angle GWU$

11) SAS



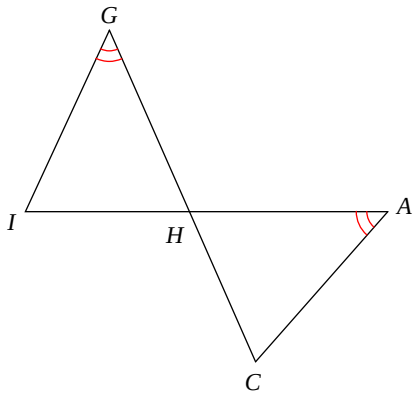

A) $\overline{FD} \cong \overline{ET}$
B) $\overline{DE} \cong \overline{TF}$
C) $\angle D \cong \angle T$ or $\angle DEF \cong \angle TFE$
D) $\angle EFD \cong \angle FET$

12) LA



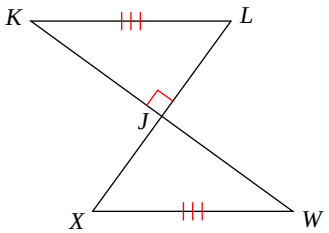

A) $\overline{ZY} \cong \overline{MY}$ or $\overline{XZ} \cong \overline{KM}$
B) $\overline{XZ} \cong \overline{KM}$
C) $\angle Z \cong \angle M$ or $\angle ZYX \cong \angle MYK$
D) $\angle Z \cong \angle M$ or $\angle X \cong \angle K$

13) ASA



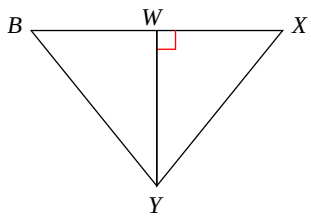

A) $\angle GHI \cong \angle AHC$
B) $\angle G \cong \angle A$
C) $\angle G \cong \angle A$ or $\angle GHI \cong \angle AHC$
D) $\overline{GH} \cong \overline{AH}$

14) HL



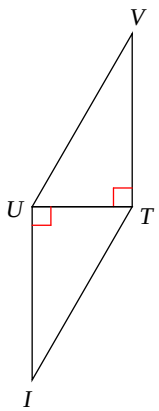

A) $\overline{JK} \cong \overline{JW}$ or $\overline{LJ} \cong \overline{XJ}$
B) $\overline{KL} \cong \overline{WX}$ or $\overline{LJ} \cong \overline{XJ}$
C) $\angle LJK \cong \angle XJW$ or $\angle K \cong \angle W$
D) $\angle LJK \cong \angle XJW$

15) LL



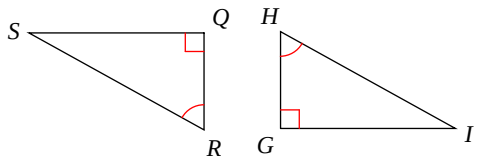

A) $\overline{WX} \cong \overline{WB}$ or $\overline{YW} \cong \overline{YW}$
B) $\angle YWX \cong \angle YWB$
C) $\angle X \cong \angle B$ or $\angle XYW \cong \angle BYW$
D) $\overline{WX} \cong \overline{WB}$

16) LA



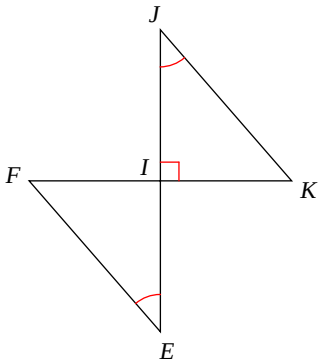

A) $\angle TUV \cong \angle UTI$ or $\angle V \cong \angle I$
B) $\angle VTU \cong \angle IUT$ or $\angle V \cong \angle I$
C) $\angle VTU \cong \angle IUT$ or $\angle TUV \cong \angle UTI$
D) $\angle TUV \cong \angle UTI$

17) HA



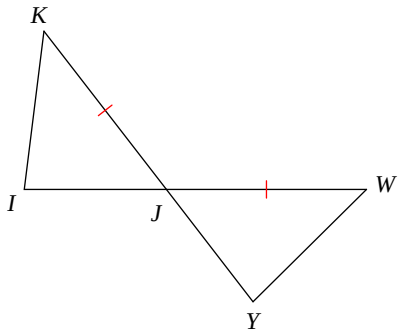

A) $\angle R \cong \angle H$
B) $\angle S \cong \angle I$
C) $\overline{RS} \cong \overline{HI}$
D) $\angle Q \cong \angle G$

18) LA



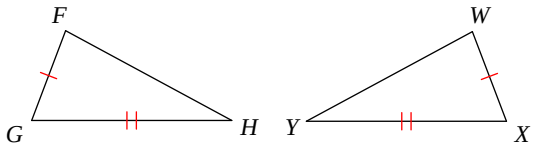

A) $\overline{IJ} \cong \overline{IE}$
B) $\overline{IJ} \cong \overline{IE}$ or $\overline{KI} \cong \overline{FI}$
C) $\angle KIJ \cong \angle FIE$ or $\angle K \cong \angle F$
D) $\overline{IJ} \cong \overline{IE}$ or $\overline{JK} \cong \overline{EF}$

19) SAS



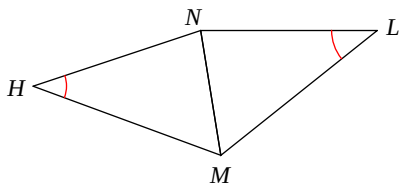

A) $\overline{JI} \cong \overline{JY}$
B) $\angle K \cong \angle W$
C) $\angle KJI \cong \angle WJY$
D) $\angle I \cong \angle Y$

20) SAS



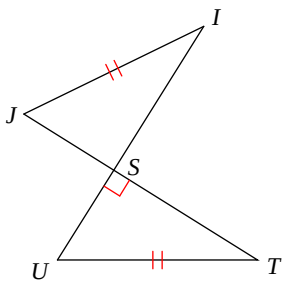

A) $\overline{GH} \cong \overline{XY}$
B) $\angle F \cong \angle W$ or $\angle G \cong \angle X$
C) $\overline{FG} \cong \overline{WX}$ or $\overline{HF} \cong \overline{YW}$
D) $\angle G \cong \angle X$

21) AAS



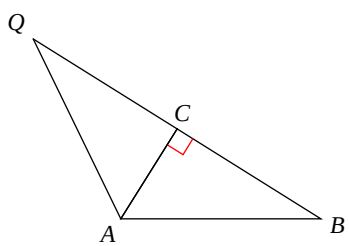

A) $\overline{LM} \cong \overline{HM}$ or $\overline{MN} \cong \overline{MN}$
B) $\angle LMN \cong \angle HMN$ or $\angle MNL \cong \angle MNH$
C) $\angle MNL \cong \angle MNH$
D) $\overline{MN} \cong \overline{MN}$

22) HL



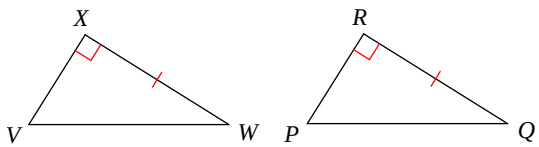

A) $\angle T \cong \angle I$ or $\angle U \cong \angle J$
B) $\overline{ST} \cong \overline{SI}$ or $\overline{US} \cong \overline{JS}$
C) $\angle U \cong \angle J$
D) $\overline{ST} \cong \overline{SI}$

23) LL




A) $\angle ACB \cong \angle ACQ$
B) $\angle ACB \cong \angle ACQ$ or $\angle BAC \cong \angle QAC$
C) $\overline{CB} \cong \overline{CQ}$
D) $\overline{CB} \cong \overline{CQ}$ or $\overline{BA} \cong \overline{QA}$

24) LL




A) $\angle W \cong \angle Q$
B) $\overline{VX} \cong \overline{PR}$
C) $\overline{XW} \cong \overline{RQ}$
D) $\overline{XW} \cong \overline{RQ}$ or $\overline{WV} \cong \overline{QP}$

# Answers to Assignment (ID: 6)

1) C
2) D
3) B
4) B
5) B
6) D
7) C
8) B
9) D
10) A
11) B
12) A
13) D
14) A
15) D
16) A
17) C
18) B
19) A
20) D
21) B
22) B
23) C
24) B

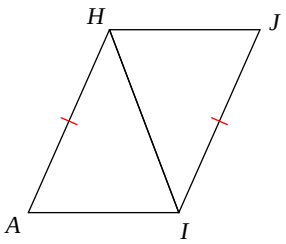
Geometry Name_____

# Assignment

Date_____ Period____

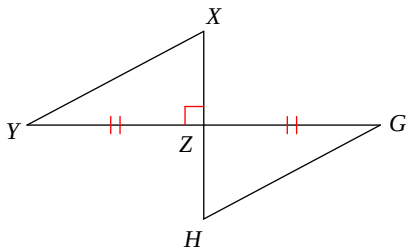
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) SAS



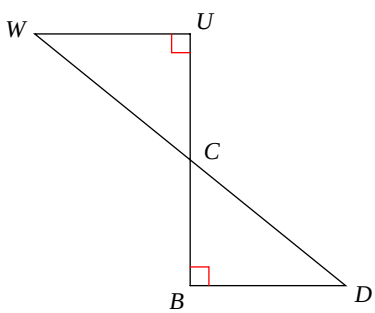

A) $\overline{IH} \cong \overline{HI}$
B) $\angle J \cong \angle A$
C) $\angle JIH \cong \angle AHI$
D) $\overline{JI} \cong \overline{AH}$

2) HL



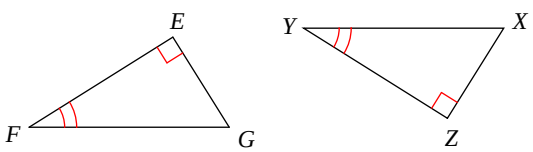

A) $\angle XZY \cong \angle HZG$ or $\angle X \cong \angle H$
B) $\overline{YX} \cong \overline{GH}$
C) $\overline{XZ} \cong \overline{HZ}$
D) $\angle XZY \cong \angle HZG$

3) LA



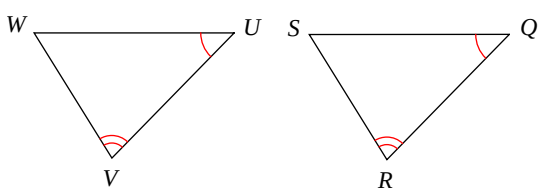

A) $\angle BCD \cong \angle UCW$ or $\angle D \cong \angle W$
B) $\overline{BC} \cong \overline{UC}$ or $\overline{DB} \cong \overline{WU}$
C) $\overline{BC} \cong \overline{UC}$ or $\overline{CD} \cong \overline{CW}$
D) $\overline{CD} \cong \overline{CW}$

4) LA



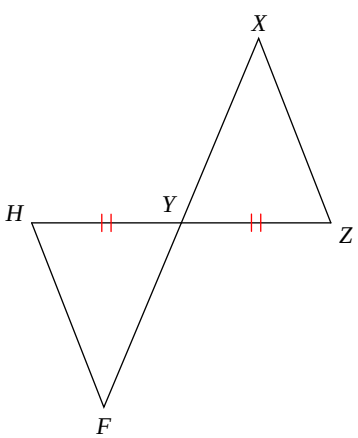

A) $\overline{EF} \cong \overline{ZY}$ or $\overline{GE} \cong \overline{XZ}$
B) $\angle G \cong \angle X$
C) $\angle E \cong \angle Z$ or $\angle F \cong \angle Y$
D) $\overline{GE} \cong \overline{XZ}$

5) AAS



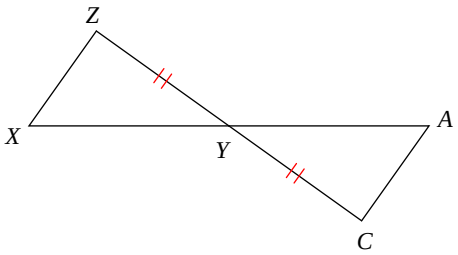

A) $\overline{VW} \cong \overline{RS}$ or $\overline{WU} \cong \overline{SQ}$
B) $\overline{WU} \cong \overline{SQ}$
C) $\angle V \cong \angle R$ or $\angle W \cong \angle S$
D) $\angle U \cong \angle Q$

6) SAS



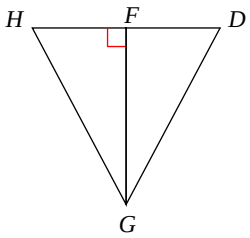

A) $\angle X \cong \angle F$
B) $\overline{ZY} \cong \overline{HY}$
C) $\overline{YX} \cong \overline{YF}$
D) $\angle ZYX \cong \angle HYF$

7) ASA



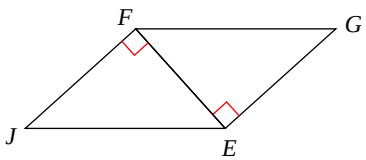

A) $\overline{YX} \cong \overline{YA}$
B) $\overline{XZ} \cong \overline{AC}$
C) $\overline{ZY} \cong \overline{CY}$
D) $\angle Z \cong \angle C$

8) LA



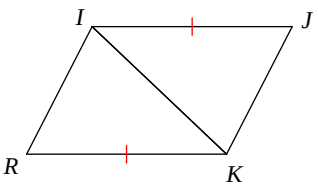

A) $\angle FGH \cong \angle FGD$ or $\angle H \cong \angle D$
B) $\overline{GH} \cong \overline{GD}$ or $\overline{HF} \cong \overline{DF}$
C) $\angle H \cong \angle D$
D) $\angle HFG \cong \angle DFG$ or $\angle FGH \cong \angle FGD$

9) HL



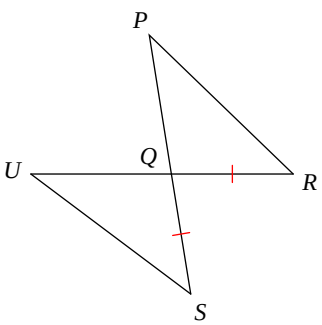

A) $\overline{FG} \cong \overline{EJ}$
B) $\angle GEF \cong \angle JFE$
C) $\angle GEF \cong \angle JFE$ or $\angle G \cong \angle J$
D) $\overline{EF} \cong \overline{FE}$

10) SSS



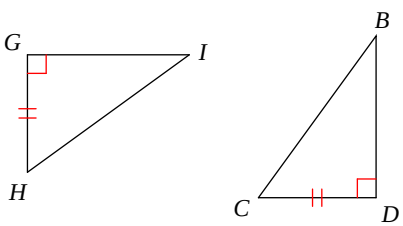

A) $\angle J \cong \angle R$ or $\angle JKI \cong \angle RIK$
B) $\overline{JK} \cong \overline{RI}$
C) $\overline{IJ} \cong \overline{KR}$
D) $\angle J \cong \angle R$

11) ASA



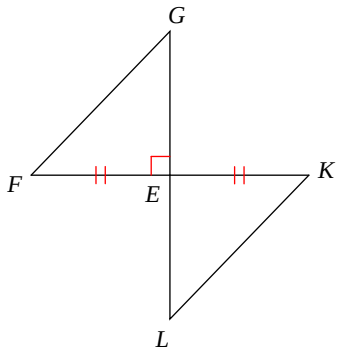

A) $\angle RQP \cong \angle SQU$
B) $\overline{PR} \cong \overline{US}$
C) $\angle R \cong \angle S$
D) $\angle RQP \cong \angle SQU$ or $\angle P \cong \angle U$

12) LL



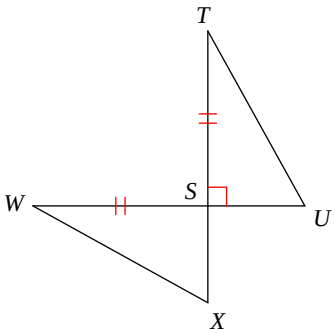

A) $\angle H \cong \angle C$
B) $\overline{IG} \cong \overline{BD}$
C) $\overline{HI} \cong \overline{CB}$
D) $\angle G \cong \angle D$ or $\angle I \cong \angle B$

13) LL



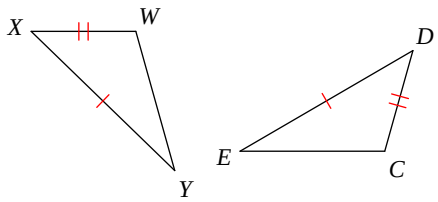

A) $\overline{GE} \cong \overline{LE}$
B) $\angle F \cong \angle K$
C) $\overline{FG} \cong \overline{KL}$ or $\overline{GE} \cong \overline{LE}$
D) $\angle GEF \cong \angle LEK$ or $\angle G \cong \angle L$

14) HL



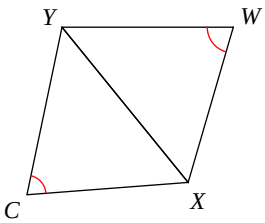

A) $\overline{ST} \cong \overline{SW}$
B) $\angle T \cong \angle W$ or $\angle U \cong \angle X$
C) $\angle U \cong \angle X$
D) $\overline{TU} \cong \overline{WX}$

15) SSS



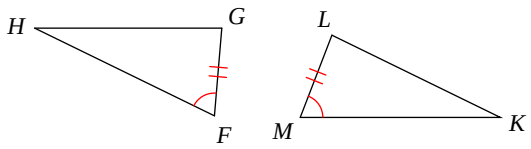

A) $\angle Y \cong \angle E$ or $\angle W \cong \angle C$
B) $\overline{WY} \cong \overline{CE}$
C) $\angle X \cong \angle D$
D) $\overline{XW} \cong \overline{DC}$

16) AAS



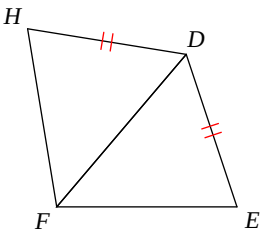

A) $\angle W \cong \angle C$ or $\angle WXY \cong \angle CXY$
B) $\overline{XY} \cong \overline{XY}$ or $\overline{YW} \cong \overline{YC}$
C) $\angle WXY \cong \angle CXY$ or $\angle XYW \cong \angle XYC$
D) $\angle W \cong \angle C$ or $\angle XYW \cong \angle XYC$

17) ASA



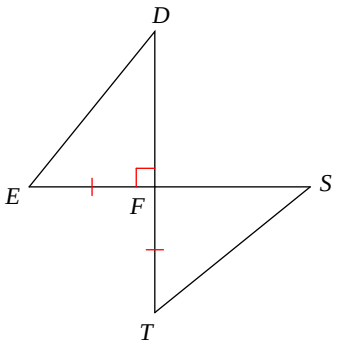

A) $\angle H \cong \angle K$
B) $\angle G \cong \angle L$
C) $\overline{GH} \cong \overline{LK}$ or $\overline{HF} \cong \overline{KM}$
D) $\angle F \cong \angle M$

18) SSS



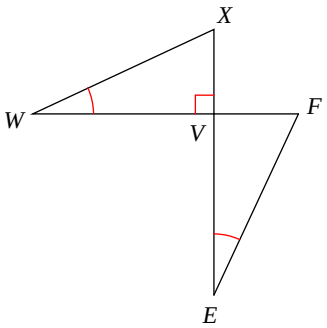

A) $\angle E \cong \angle H$ or $\angle EFD \cong \angle HFD$
B) $\overline{DE} \cong \overline{DH}$
C) $\overline{EF} \cong \overline{HF}$
D) $\angle E \cong \angle H$

19) LL



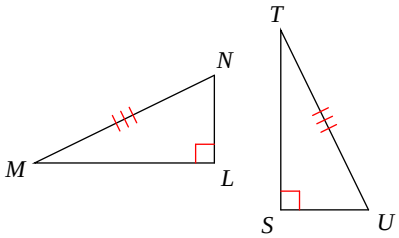

A) $\overline{FE} \cong \overline{FT}$ or $\overline{DF} \cong \overline{SF}$
B) $\overline{DF} \cong \overline{SF}$
C) $\overline{ED} \cong \overline{TS}$
D) $\angle D \cong \angle S$

20) HA



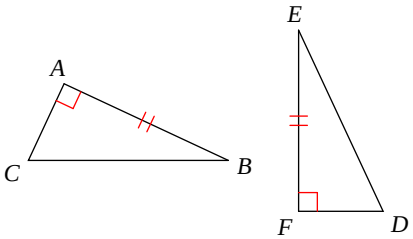

A) $\angle XVW \cong \angle FVE$ or $\angle W \cong \angle E$
B) $\overline{WX} \cong \overline{EF}$
C) $\angle X \cong \angle F$
D) $\angle W \cong \angle E$

21) HL



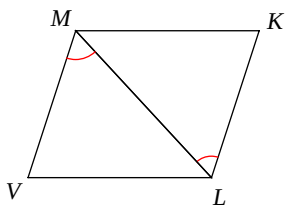

A) $\angle M \cong \angle T$ or $\angle N \cong \angle U$
B) $\angle L \cong \angle S$
C) $\overline{LM} \cong \overline{ST}$ or $\overline{MN} \cong \overline{TU}$
D) $\overline{LM} \cong \overline{ST}$ or $\overline{NL} \cong \overline{US}$

22) LA



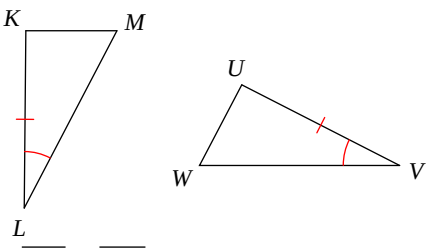

A) $\overline{AB} \cong \overline{FE}$ or $\overline{CA} \cong \overline{DF}$
B) $\overline{AB} \cong \overline{FE}$ or $\overline{BC} \cong \overline{ED}$
C) $\angle B \cong \angle E$ or $\angle C \cong \angle D$
D) $\angle C \cong \angle D$

23) SAS




A) $\overline{LM} \cong \overline{ML}$
B) $\angle KLM \cong \angle VML$
C) $\angle K \cong \angle V$
D) $\overline{KL} \cong \overline{VM}$

24) SAS




A) $\overline{LM} \cong \overline{VW}$
B) $\angle K \cong \angle U$
C) $\overline{MK} \cong \overline{WU}$
D) $\angle M \cong \angle W$

# Answers to Assignment (ID: 7)

1) C
2) B
3) B
4) A
5) A
6) C
7) D
8) A
9) A
10) B
11) C
12) B
13) A
14) D
15) B
16) C
17) B
18) C
19) B
20) B
21) D
22) C
23) D
24) A

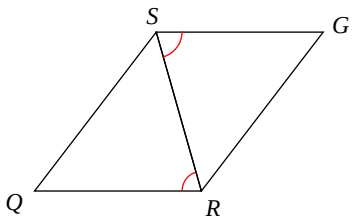
Geometry Name_____

# Assignment

Date_____ Period____

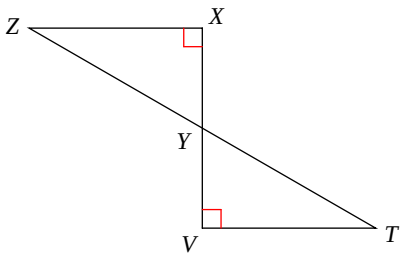
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) ASA



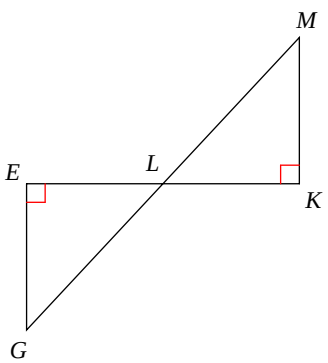

A) $\overline{SR} \cong \overline{RS}$ or $\overline{RQ} \cong \overline{SG}$
B) $\angle SRQ \cong \angle RSG$
C) $\angle QSR \cong \angle GRS$
D) $\overline{RQ} \cong \overline{SG}$

2) HA



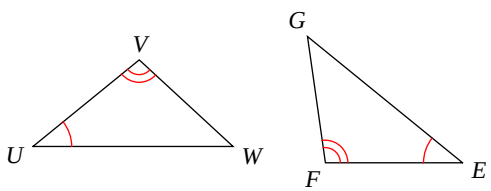

A) $\overline{YZ} \cong \overline{YT}$
B) $\angle X \cong \angle V$
C) $\angle X \cong \angle V$ or $\angle Z \cong \angle T$
D) $\overline{XY} \cong \overline{VY}$

3) LA



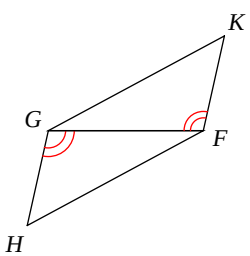

A) $\overline{KL} \cong \overline{EL}$ or $\overline{LM} \cong \overline{LG}$
B) $\overline{KL} \cong \overline{EL}$ or $\overline{MK} \cong \overline{GE}$
C) $\overline{LM} \cong \overline{LG}$ or $\overline{MK} \cong \overline{GE}$
D) $\overline{MK} \cong \overline{GE}$

4) ASA



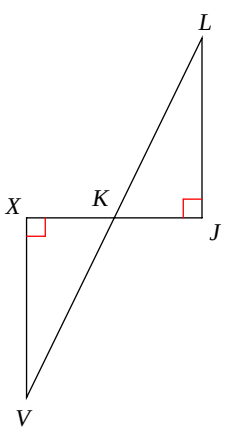

A) $\overline{UV} \cong \overline{EF}$
B) $\overline{UV} \cong \overline{EF}$ or $\overline{VW} \cong \overline{FG}$
C) $\overline{VW} \cong \overline{FG}$ or $\overline{WU} \cong \overline{GE}$
D) $\angle V \cong \angle F$

5) AAS



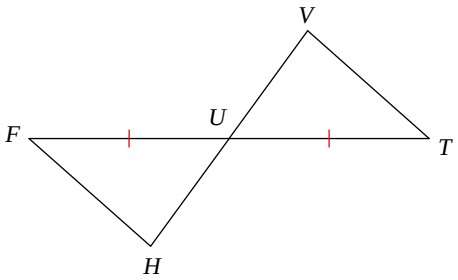

A) $\angle HGF \cong \angle KFG$
B) $\angle GFH \cong \angle FGK$
C) $\angle H \cong \angle K$
D) $\overline{GF} \cong \overline{FG}$ or $\overline{FH} \cong \overline{GK}$

6) HA



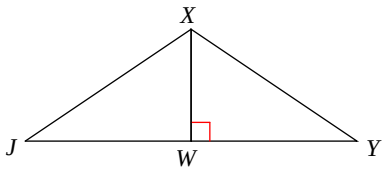

A) $\angle JKL \cong \angle XKV$ or $\angle L \cong \angle V$
B) $\overline{KL} \cong \overline{KV}$
C) $\angle J \cong \angle X$
D) $\angle L \cong \angle V$

7) SAS



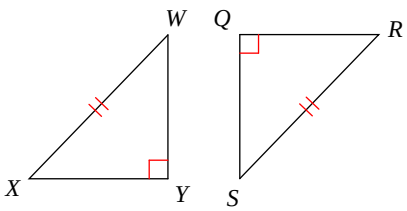

A) $\angle T \cong \angle F$
B) $\angle T \cong \angle F$ or $\angle TUV \cong \angle FUH$
C) $\overline{TU} \cong \overline{FU}$
D) $\overline{UV} \cong \overline{UH}$

8) HL



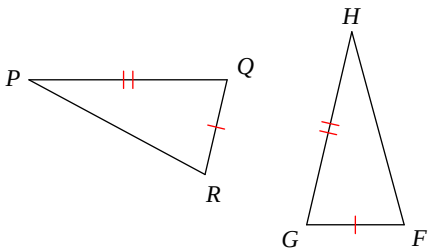

A) $\overline{XY} \cong \overline{XJ}$ or $\overline{YW} \cong \overline{JW}$
B) $\angle WXY \cong \angle WXJ$
C) $\overline{XY} \cong \overline{XJ}$
D) $\overline{YW} \cong \overline{JW}$

9) HL



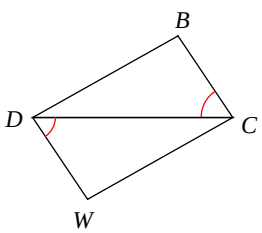

A) $\angle Y \cong \angle Q$ or $\angle W \cong \angle S$
B) $\overline{YX} \cong \overline{QR}$ or $\overline{WY} \cong \overline{SQ}$
C) $\overline{WY} \cong \overline{SQ}$
D) $\overline{XW} \cong \overline{RS}$ or $\overline{WY} \cong \overline{SQ}$

10) SSS



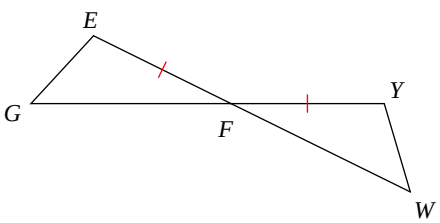

A) $\overline{PR} \cong \overline{HF}$
B) $\angle R \cong \angle F$
C) $\overline{QP} \cong \overline{GH}$
D) $\overline{RQ} \cong \overline{FG}$ or $\overline{PR} \cong \overline{HF}$

11) AAS



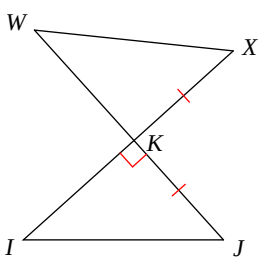

A) $\angle B \cong \angle W$
B) $\angle B \cong \angle W$ or $\angle CDB \cong \angle DCW$
C) $\angle CDB \cong \angle DCW$
D) $\overline{CD} \cong \overline{DC}$

12) ASA



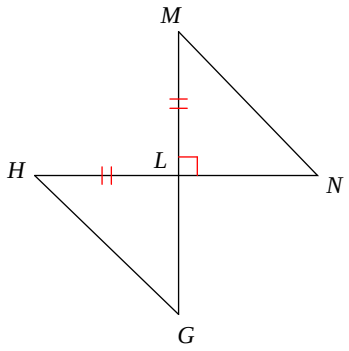

A) $\angle EFG \cong \angle YFW$
B) $\angle E \cong \angle Y$ or $\angle EFG \cong \angle YFW$
C) $\angle E \cong \angle Y$
D) $\overline{EF} \cong \overline{YF}$

13) LL



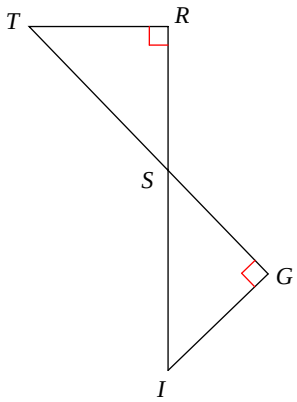

A) $\overline{IK} \cong \overline{WK}$
B) $\angle IKJ \cong \angle WKX$
C) $\angle J \cong \angle X$
D) $\overline{KJ} \cong \overline{KX}$

14) LL



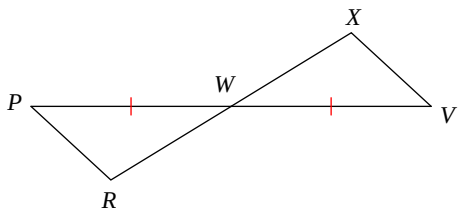

A) $\angle M \cong \angle H$
B) $\angle NLM \cong \angle GLH$ or $\angle M \cong \angle H$
C) $\angle NLM \cong \angle GLH$ or $\angle N \cong \angle G$
D) $\overline{NL} \cong \overline{GL}$

15) LA



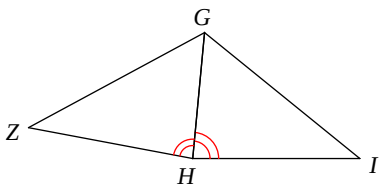

A) $\overline{RS} \cong \overline{GS}$ or $\overline{TR} \cong \overline{IG}$
B) $\angle RST \cong \angle GSI$ or $\angle T \cong \angle I$
C) $\overline{TR} \cong \overline{IG}$
D) $\overline{RS} \cong \overline{GS}$

16) SAS



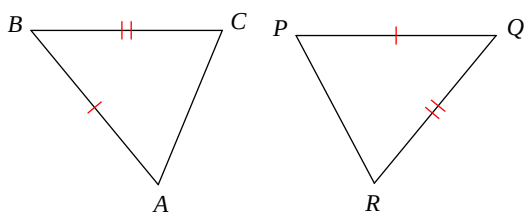

A) $\angle X \cong \angle R$
B) $\angle V \cong \angle P$
C) $\overline{WX} \cong \overline{WR}$
D) $\angle VWX \cong \angle PWR$

17) AAS



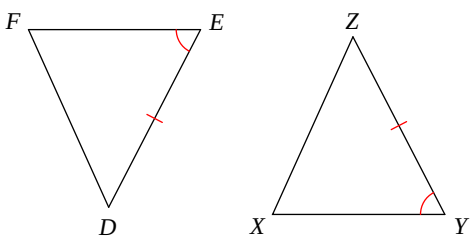

A) $\overline{HG} \cong \overline{HG}$ or $\overline{GI} \cong \overline{GZ}$
B) $\angle I \cong \angle Z$
C) $\overline{IH} \cong \overline{ZH}$ or $\overline{HG} \cong \overline{HG}$
D) $\angle HGI \cong \angle HGZ$

18) SSS



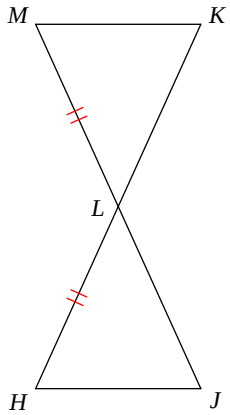

A) $\overline{CA} \cong \overline{RP}$
B) $\angle A \cong \angle P$ or $\angle C \cong \angle R$
C) $\angle C \cong \angle R$
D) $\overline{AB} \cong \overline{PQ}$

19) SAS



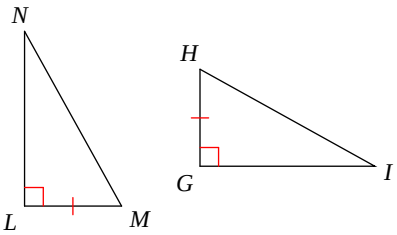

A) $\overline{EF} \cong \overline{YX}$
B) $\overline{DE} \cong \overline{ZY}$ or $\overline{EF} \cong \overline{YX}$
C) $\angle D \cong \angle Z$ or $\angle E \cong \angle Y$
D) $\overline{DE} \cong \overline{ZY}$

20) AAS



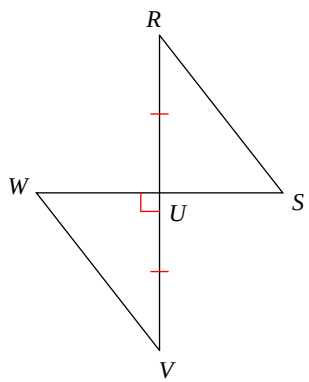

A) $\angle K \cong \angle J$
B) $\angle M \cong \angle H$
C) $\overline{KL} \cong \overline{JL}$
D) $\angle KLM \cong \angle JLH$

21) LA



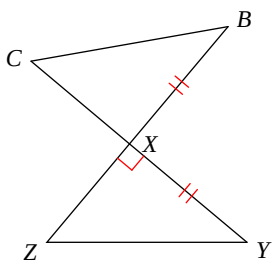

A) $\angle L \cong \angle G$ or $\angle M \cong \angle H$
B) $\angle M \cong \angle H$ or $\angle N \cong \angle I$
C) $\overline{NL} \cong \overline{IG}$
D) $\angle N \cong \angle I$

22) LL



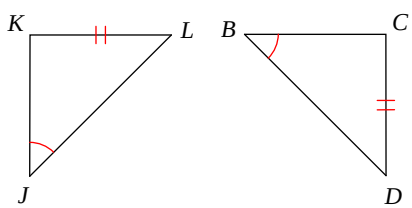

A) $\angle V \cong \angle R$
B) $\overline{WU} \cong \overline{SU}$
C) $\angle W \cong \angle S$
D) $\overline{UV} \cong \overline{UR}$

23) LA




A) $\angle ZXY \cong \angle CXB$ or $\angle Y \cong \angle B$
B) $\overline{XY} \cong \overline{XB}$ or $\overline{YZ} \cong \overline{BC}$
C) $\angle Y \cong \angle B$ or $\angle Z \cong \angle C$
D) $\overline{XY} \cong \overline{XB}$ or $\overline{ZX} \cong \overline{CX}$

24) AAS




A) $\angle K \cong \angle C$ or $\angle L \cong \angle D$
B) $\overline{JK} \cong \overline{BC}$ or $\overline{LJ} \cong \overline{DB}$
C) $\overline{LJ} \cong \overline{DB}$
D) $\angle J \cong \angle B$ or $\angle L \cong \angle D$

# Answers to Assignment (ID: 8)

1) C
2) A
3) B
4) A
5) C
6) B
7) D
8) C
9) B
10) A
11) A
12) C
13) A
14) D
15) A
16) C
17) B
18) A
19) A
20) A
21) B
22) B
23) C
24) A

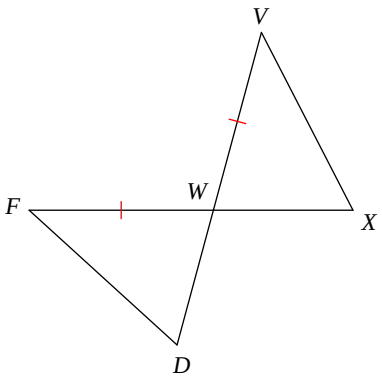
Geometry Name_____

# Assignment

Date_____ Period____

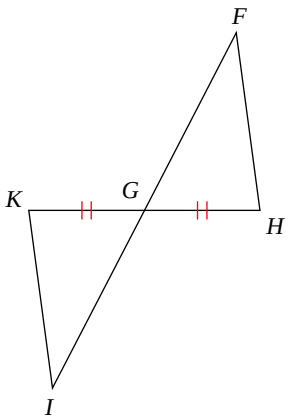
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) AAS



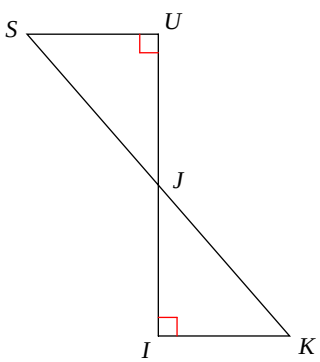

A) $\overline{XW} \cong \overline{DW}$ or $\overline{VX} \cong \overline{FD}$
B) $\overline{XW} \cong \overline{DW}$ or $\overline{WV} \cong \overline{WF}$
C) $\overline{VX} \cong \overline{FD}$
D) $\angle X \cong \angle D$

2) ASA



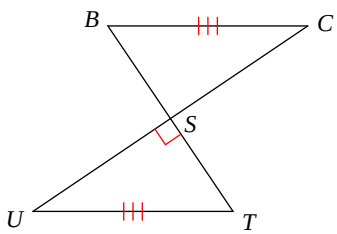

A) $\overline{HG} \cong \overline{KG}$
B) $\overline{HG} \cong \overline{KG}$ or $\overline{FH} \cong \overline{IK}$
C) $\angle H \cong \angle K$ or $\angle HGF \cong \angle KGI$
D) $\angle H \cong \angle K$

3) LA



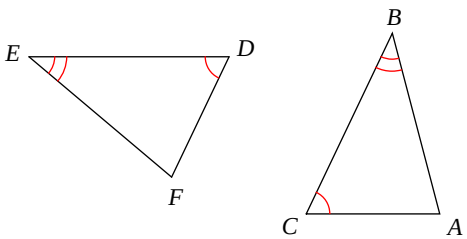

A) $\overline{IJ} \cong \overline{UJ}$ or $\overline{KI} \cong \overline{SU}$
B) $\overline{KI} \cong \overline{SU}$
C) $\overline{IJ} \cong \overline{UJ}$
D) $\overline{IJ} \cong \overline{UJ}$ or $\overline{JK} \cong \overline{JS}$

4) HL



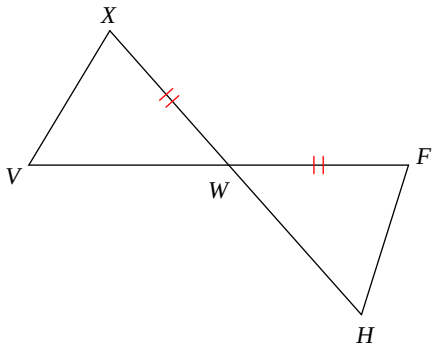

A) $\overline{TU} \cong \overline{BC}$ or $\overline{US} \cong \overline{CS}$
B) $\angle T \cong \angle B$ or $\angle U \cong \angle C$
C) $\overline{ST} \cong \overline{SB}$ or $\overline{US} \cong \overline{CS}$
D) $\overline{ST} \cong \overline{SB}$ or $\overline{TU} \cong \overline{BC}$

5) ASA



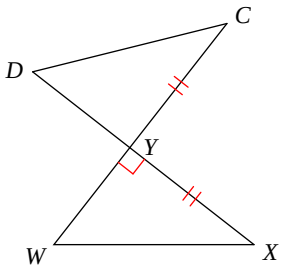

A) $\angle E \cong \angle B$
B) $\overline{FD} \cong \overline{AC}$
C) $\overline{DE} \cong \overline{CB}$
D) $\overline{EF} \cong \overline{BA}$ or $\overline{FD} \cong \overline{AC}$

6) ASA



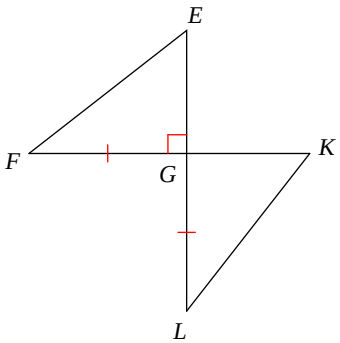

A) $\angle X \cong \angle F$
B) $\overline{XW} \cong \overline{FW}$
C) $\angle XWV \cong \angle FWH$ or $\angle V \cong \angle H$
D) $\overline{WV} \cong \overline{WH}$

7) HL



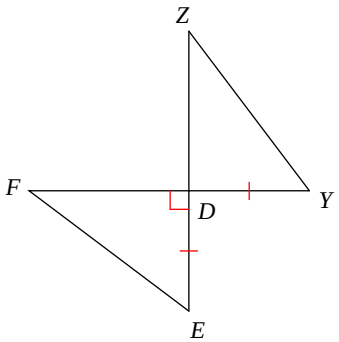

A) $\overline{XW} \cong \overline{CD}$
B) $\overline{XW} \cong \overline{CD}$ or $\overline{WY} \cong \overline{DY}$
C) $\angle W \cong \angle D$
D) $\overline{YX} \cong \overline{YC}$ or $\overline{XW} \cong \overline{CD}$

8) LL



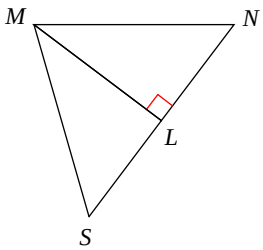

A) $\overline{FE} \cong \overline{LK}$
B) $\angle EGF \cong \angle KGL$ or $\angle E \cong \angle K$
C) $\angle F \cong \angle L$ or $\angle E \cong \angle K$
D) $\overline{EG} \cong \overline{KG}$

9) LL



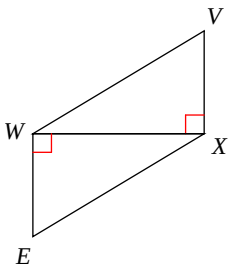

A) $\overline{EF} \cong \overline{YZ}$
B) $\overline{DE} \cong \overline{DY}$ or $\overline{EF} \cong \overline{YZ}$
C) $\overline{DE} \cong \overline{DY}$
D) $\overline{FD} \cong \overline{ZD}$

10) LA



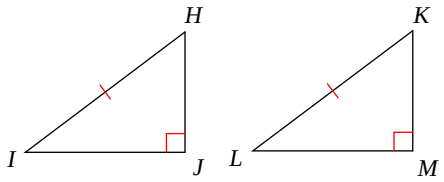

A) $\angle LMN \cong \angle LMS$ or $\angle N \cong \angle S$
B) $\angle N \cong \angle S$
C) $\overline{MN} \cong \overline{MS}$ or $\overline{NL} \cong \overline{SL}$
D) $\angle NLM \cong \angle SLM$ or $\angle N \cong \angle S$

11) HL



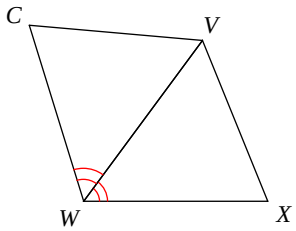

A) $\overline{VX} \cong \overline{EW}$
B) $\angle XWV \cong \angle WXE$ or $\angle V \cong \angle E$
C) $\overline{XW} \cong \overline{WX}$
D) $\overline{WV} \cong \overline{XE}$

12) HA



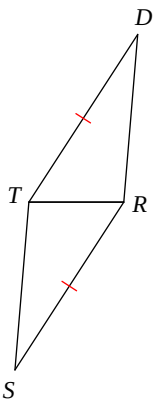

A) $\overline{IH} \cong \overline{LK}$ or $\overline{HJ} \cong \overline{KM}$
B) $\angle H \cong \angle K$
C) $\overline{JI} \cong \overline{ML}$ or $\overline{HJ} \cong \overline{KM}$
D) $\angle I \cong \angle L$ or $\angle H \cong \angle K$

13) SAS



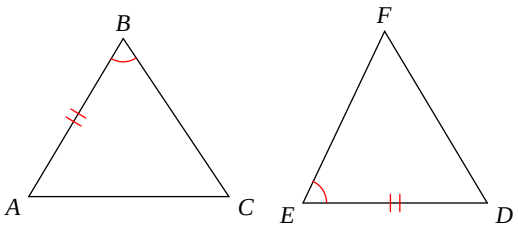

A) $\overline{WV} \cong \overline{WV}$
B) $\angle XWV \cong \angle CWV$
C) $\angle WVX \cong \angle WVC$
D) $\overline{XW} \cong \overline{CW}$

14) SSS



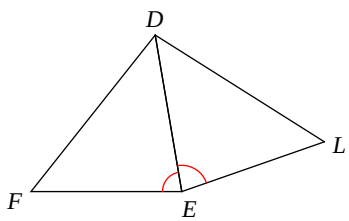

A) $\overline{ST} \cong \overline{DR}$ or $\overline{TR} \cong \overline{RT}$
B) $\overline{ST} \cong \overline{DR}$
C) $\angle TRS \cong \angle RTD$ or $\angle S \cong \angle D$
D) $\overline{TR} \cong \overline{RT}$

15) SAS



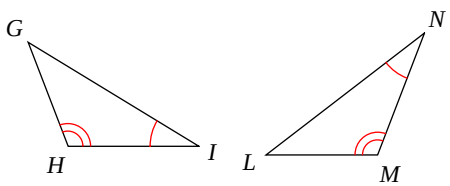

A) $\angle A \cong \angle D$
B) $\overline{CA} \cong \overline{FD}$
C) $\overline{BC} \cong \overline{EF}$
D) $\angle B \cong \angle E$

16) ASA



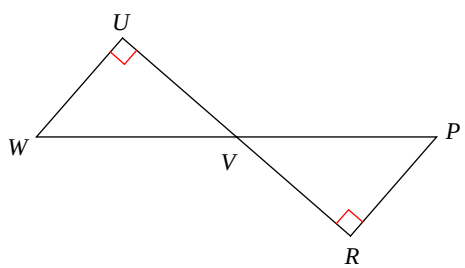

A) $\overline{DE} \cong \overline{DE}$
B) $\overline{EF} \cong \overline{EL}$
C) $\angle F \cong \angle L$
D) $\angle FDE \cong \angle LDE$

17) ASA



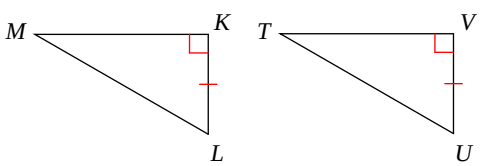

A) $\angle H \cong \angle M$ or $\angle G \cong \angle L$
B) $\angle I \cong \angle N$
C) $\overline{IH} \cong \overline{NM}$
D) $\overline{HG} \cong \overline{ML}$

18) HA



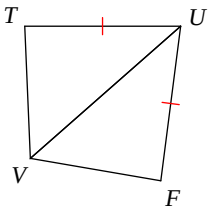

A) $\overline{VW} \cong \overline{VP}$
B) $\angle U \cong \angle R$

19) HL



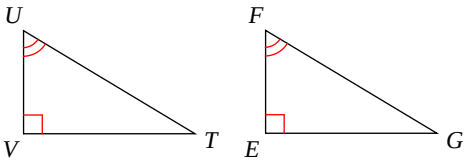

A) $\overline{KL} \cong \overline{VU}$ or $\overline{MK} \cong \overline{TV}$
B) $\overline{LM} \cong \overline{UT}$
C) $\angle M \cong \angle T$
D) $\angle L \cong \angle U$

20) SAS



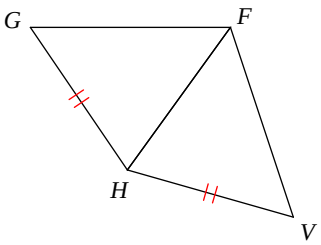

A) $\angle TUV \cong \angle FUV$
B) $\angle UVT \cong \angle UVF$
C) $\angle TUV \cong \angle FUV$ or $\angle UVT \cong \angle UVF$
D) $\overline{TU} \cong \overline{FU}$ or $\overline{UV} \cong \overline{UV}$

21) LA



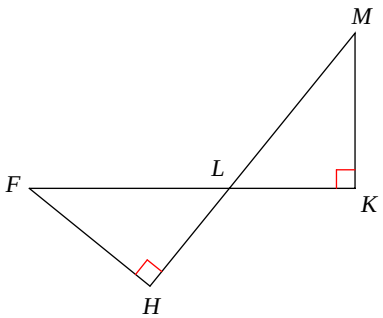

A) $\overline{TV} \cong \overline{GE}$
B) $\overline{VU} \cong \overline{EF}$ or $\overline{TV} \cong \overline{GE}$
C) $\angle V \cong \angle E$
D) $\angle V \cong \angle E$ or $\angle T \cong \angle G$

22) SSS



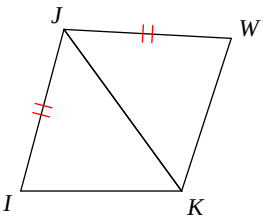

A) $\angle FHG \cong \angle FHV$
B) $\overline{GF} \cong \overline{VF}$
C) $\angle FHG \cong \angle FHV$ or $\angle G \cong \angle V$
D) $\angle G \cong \angle V$

23) LA




A) $\overline{KL} \cong \overline{HL}$ or $\overline{MK} \cong \overline{FH}$
B) $\overline{LM} \cong \overline{LF}$ or $\overline{MK} \cong \overline{FH}$
C) $\angle K \cong \angle H$ or $\angle M \cong \angle F$
D) $\angle M \cong \angle F$

24) SAS




A) $\overline{JK} \cong \overline{JK}$ or $\overline{KI} \cong \overline{KW}$
B) $\overline{IJ} \cong \overline{WJ}$
C) $\overline{JK} \cong \overline{JK}$
D) $\angle IJK \cong \angle WJK$

# Answers to Assignment (ID: 9)

1) D
2) D
3) A
4) C
5) C
6) A
7) A
8) D
9) D
10) A
11) D
12) D
13) D
14) B
15) C
16) D
17) C
18) A
19) B
20) A
21) B
22) B
23) A
24) D

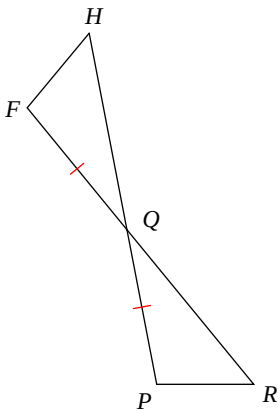
Geometry Name_____

# Assignment

Date_____ Period____

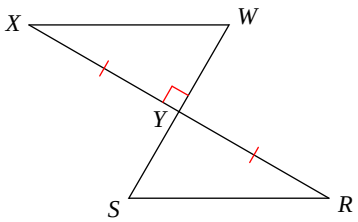
**State what additional information is required in order to know that the triangles are congruent for the reason given.**

1) ASA



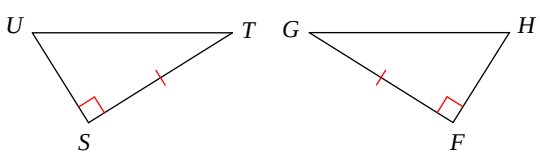

A) $\angle R \cong \angle H$
B) $\overline{PQ} \cong \overline{FQ}$
C) $\overline{QR} \cong \overline{QH}$
D) $\angle P \cong \angle F$

2) LA



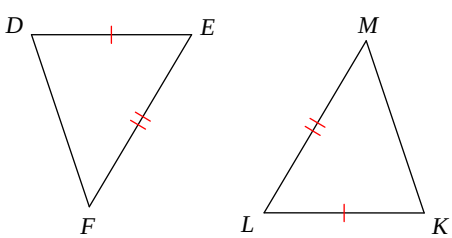

A) $\overline{YX} \cong \overline{YR}$ or $\overline{WY} \cong \overline{SY}$
B) $\angle X \cong \angle R$ or $\angle W \cong \angle S$
C) $\angle W \cong \angle S$
D) $\angle WYX \cong \angle SYR$ or $\angle W \cong \angle S$

3) HL



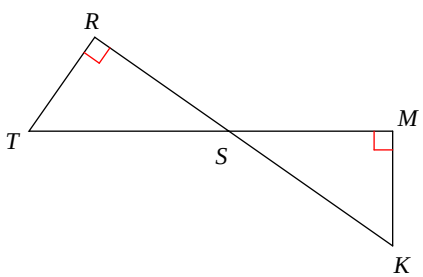

A) $\angle S \cong \angle F$ or $\angle T \cong \angle G$
B) $\overline{TU} \cong \overline{GH}$
C) $\overline{ST} \cong \overline{FG}$ or $\overline{TU} \cong \overline{GH}$
D) $\angle S \cong \angle F$

4) SSS



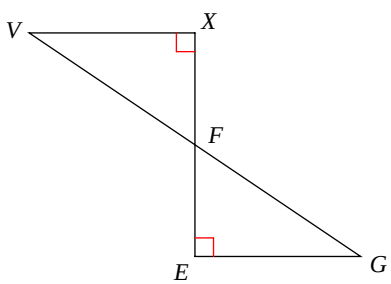

A) $\overline{EF} \cong \overline{LM}$
B) $\overline{FD} \cong \overline{MK}$
C) $\overline{DE} \cong \overline{KL}$
D) $\angle E \cong \angle L$

5) LA



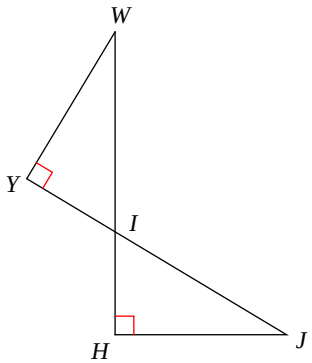

A) $\overline{RS} \cong \overline{MS}$
B) $\overline{RS} \cong \overline{MS}$ or $\overline{TR} \cong \overline{KM}$
C) $\overline{ST} \cong \overline{SK}$
D) $\angle RST \cong \angle MSK$ or $\angle T \cong \angle K$

6) HA



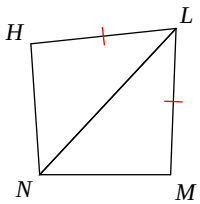

A) $\overline{FG} \cong \overline{FV}$
B) $\angle G \cong \angle V$
C) $\overline{GE} \cong \overline{VX}$
D) $\angle E \cong \angle X$ or $\angle EFG \cong \angle XFV$

7) LA



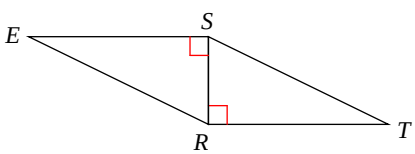

A) $\angle HIJ \cong \angle YIW$
B) $\angle H \cong \angle Y$ or $\angle J \cong \angle W$
C) $\angle HIJ \cong \angle YIW$ or $\angle J \cong \angle W$
D) $\overline{HI} \cong \overline{YI}$ or $\overline{JH} \cong \overline{WY}$

8) SSS



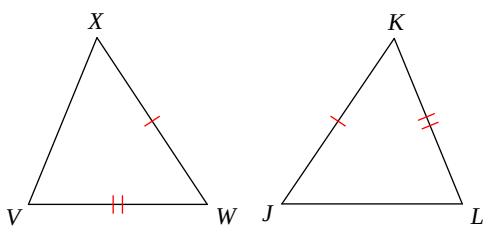

A) $\overline{MN} \cong \overline{HN}$
B) $\angle M \cong \angle H$
C) $\angle NLM \cong \angle NLH$ or $\angle M \cong \angle H$
D) $\overline{MN} \cong \overline{HN}$ or $\overline{NL} \cong \overline{NL}$

9) LA



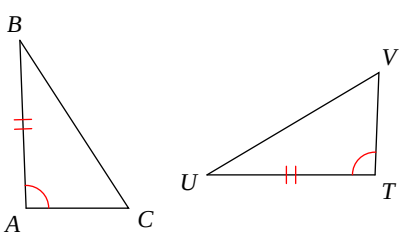

A) $\angle RST \cong \angle SRE$ or $\angle T \cong \angle E$
B) $\angle T \cong \angle E$
C) $\angle TRS \cong \angle ESR$ or $\angle RST \cong \angle SRE$
D) $\angle TRS \cong \angle ESR$ or $\angle T \cong \angle E$

10) SAS



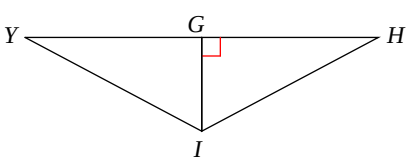

A) $\angle V \cong \angle L$
B) $\overline{WV} \cong \overline{KL}$
C) $\angle X \cong \angle J$ or $\angle V \cong \angle L$
D) $\angle W \cong \angle K$

11) ASA



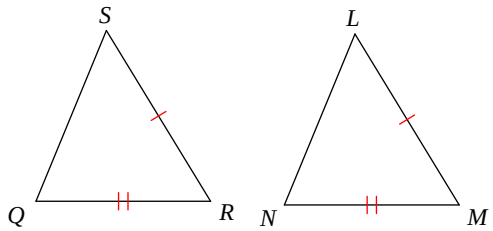

A) $\overline{BC} \cong \overline{UV}$ or $\overline{CA} \cong \overline{VT}$
B) $\angle B \cong \angle U$
C) $\overline{AB} \cong \overline{TU}$ or $\overline{CA} \cong \overline{VT}$
D) $\angle B \cong \angle U$ or $\angle C \cong \angle V$

12) LL



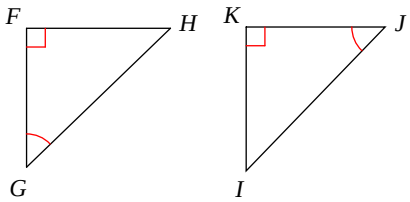

A) $\overline{GH} \cong \overline{GY}$
B) $\angle H \cong \angle Y$ or $\angle HIG \cong \angle YIG$
C) $\overline{GH} \cong \overline{GY}$ or $\overline{IG} \cong \overline{IG}$
D) $\overline{HI} \cong \overline{YI}$

13) SSS



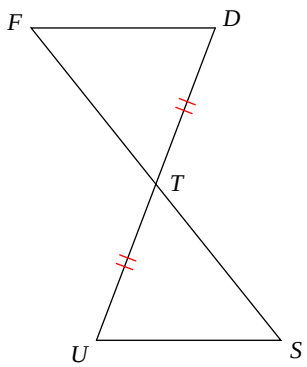

A) $\overline{QS} \cong \overline{NL}$
B) $\angle S \cong \angle L$
C) $\overline{RQ} \cong \overline{MN}$ or $\overline{QS} \cong \overline{NL}$
D) $\overline{SR} \cong \overline{LM}$

14) HA



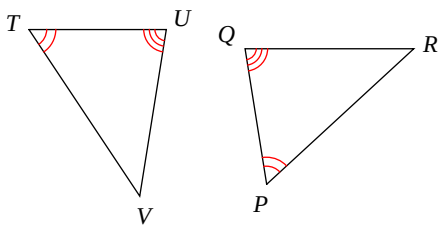

A) $\angle F \cong \angle K$
B) $\overline{GH} \cong \overline{JI}$
C) $\overline{HF} \cong \overline{IK}$
D) $\angle H \cong \angle I$

15) SAS



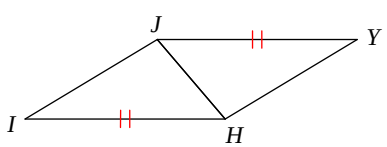

A) $\overline{TS} \cong \overline{TF}$
B) $\angle U \cong \angle D$ or $\angle UTS \cong \angle DTF$
C) $\overline{TS} \cong \overline{TF}$ or $\overline{SU} \cong \overline{FD}$
D) $\overline{UT} \cong \overline{DT}$ or $\overline{TS} \cong \overline{TF}$

16) AAS



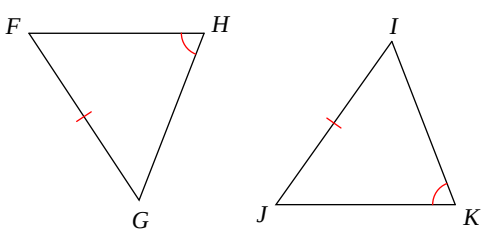

A) $\angle U \cong \angle Q$ or $\angle V \cong \angle R$
B) $\overline{UV} \cong \overline{QR}$ or $\overline{VT} \cong \overline{RP}$
C) $\overline{TU} \cong \overline{PQ}$ or $\overline{UV} \cong \overline{QR}$
D) $\overline{UV} \cong \overline{QR}$

17) SSS



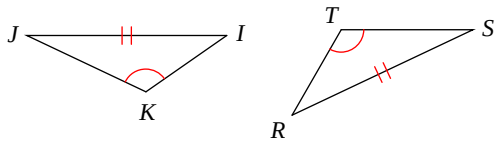

A) $\overline{IJ} \cong \overline{YH}$
B) $\angle I \cong \angle Y$ or $\angle IJH \cong \angle YHJ$
C) $\angle JHI \cong \angle HJY$ or $\angle I \cong \angle Y$
D) $\angle JHI \cong \angle HJY$

18) AAS



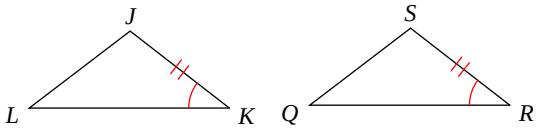

A) $\angle G \cong \angle J$ or $\angle F \cong \angle I$
B) $\overline{HG} \cong \overline{KJ}$ or $\overline{FH} \cong \overline{IK}$
C) $\angle F \cong \angle I$
D) $\angle H \cong \angle K$ or $\angle G \cong \angle J$

19) AAS



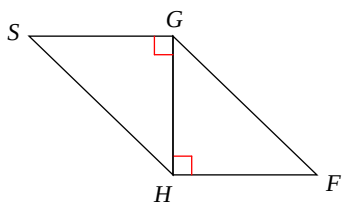

A) $\overline{KJ} \cong \overline{TS}$ or $\overline{JI} \cong \overline{SR}$
B) $\angle K \cong \angle T$ or $\angle I \cong \angle R$
C) $\angle I \cong \angle R$
D) $\angle J \cong \angle S$ or $\angle I \cong \angle R$

20) SAS



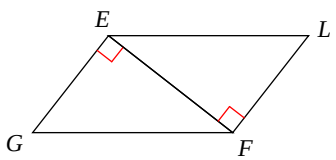

A) $\overline{LJ} \cong \overline{QS}$
B) $\overline{KL} \cong \overline{RQ}$
C) $\angle J \cong \angle S$
D) $\angle K \cong \angle R$

21) LA



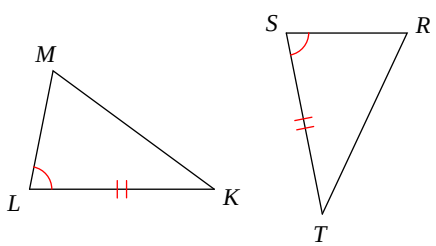

A) $\angle HGF \cong \angle GHS$ or $\angle F \cong \angle S$
B) $\overline{GF} \cong \overline{HS}$ or $\overline{FH} \cong \overline{SG}$
C) $\overline{HG} \cong \overline{GH}$ or $\overline{FH} \cong \overline{SG}$
D) $\angle F \cong \angle S$

22) HL



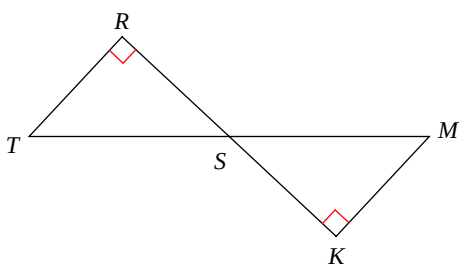

A) $\overline{FG} \cong \overline{EL}$
B) $\overline{GE} \cong \overline{LF}$
C) $\overline{FG} \cong \overline{EL}$ or $\overline{GE} \cong \overline{LF}$
D) $\angle EFG \cong \angle FEL$

23) SAS




A) $\overline{MK} \cong \overline{RT}$
B) $\overline{KL} \cong \overline{TS}$
C) $\angle L \cong \angle S$
D) $\overline{LM} \cong \overline{SR}$

24) LA




A) $\overline{RS} \cong \overline{KS}$ or $\overline{ST} \cong \overline{SM}$
B) $\overline{ST} \cong \overline{SM}$
C) $\angle RST \cong \angle KSM$ or $\angle T \cong \angle M$
D) $\overline{RS} \cong \overline{KS}$ or $\overline{TR} \cong \overline{MK}$

# Answers to Assignment (ID: 10)

1) D
2) B
3) B
4) B
5) B
6) A
7) D
8) A
9) A
10) D
11) B
12) A
13) A
14) B
15) A
16) B
17) A
18) A
19) D
20) B
21) A
22) A
23) D
24) D