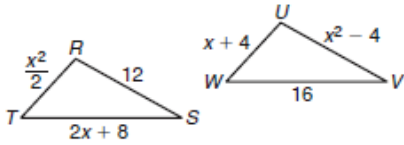


Unit 4 Review Days 1-7

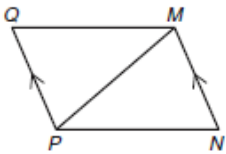
Use this space to show work for questions 1-5

1. For which value of x is $\triangle RST \cong \triangle UVW$?



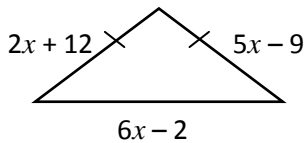
- A 2
- B 4
- C $2\sqrt{5}$
- D 12

2. What additional information is needed to prove $\triangle MNP \cong \triangle PMQ$ by SAS?

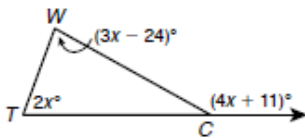


- F $\angle N \cong \angle Q$
- G $\angle MPN \cong \angle MPQ$
- H $\overline{MQ} \cong \overline{PN}$
- J $\overline{MN} \cong \overline{PQ}$

3. What is the length of the longest side of the triangle?



4. What is $m\angle W$?

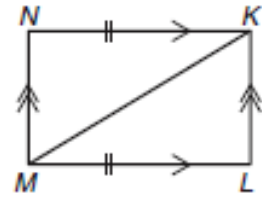


- A 35°
- B $40.\overline{3}^\circ$
- C 70°
- D 81°

5. Suppose $\angle S \cong \angle N$, $\angle J \cong \angle I$, $\angle A \cong \angle T$, $\overline{JS} \cong \overline{IN}$, $\overline{JA} \cong \overline{IT}$, and $\overline{AS} \cong \overline{TN}$. Which is true?

- F $\triangle JSA \cong \triangle ITN$
- G $\triangle JSA \cong \triangle NTI$
- H $\triangle JSA \cong \triangle INT$
- J $\triangle JSA \cong \triangle TNI$

6. Given the diagram, show your plan of how you can prove $\triangle MNK \cong \triangle KLM$ by:



SAS \cong	ASA \cong	AAS \cong

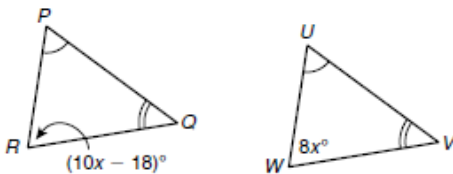
- What additional information is needed in order to prove the triangles \cong by SSS \cong ? _____
- What additional information is needed in order to prove the triangles \cong by RHL \cong ? _____
- After proving $\triangle MNK \cong \triangle KLM$, what reason would justify the statement $\overline{MN} \cong \overline{KL}$? _____

Use this space to show work for questions 7-10

7. What is the value of x if the acute angles of a right triangle measure $8x^\circ$ and $12x^\circ$?

- A 4.5 C 9
 B 5 D 10

8. In the figure, $\triangle PQR \cong \triangle UVW$. What is $m\angle R$?



- F 42° H 88°
 G 72° J 92°

9. If $\triangle KMQ \cong \triangle WJR$, which segment is congruent to \overline{RW} ?

- A \overline{KM} C \overline{QK}
 B \overline{MQ} D \overline{JW}

10. Which angle is congruent to $\angle Z$ if $\triangle ZLV \cong \triangle SPN$?

- F $\angle V$ H $\angle N$
 G $\angle S$ J $\angle P$