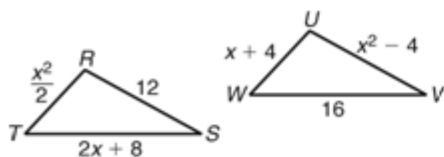


CHAPTER 4 **Section Quiz**
Lessons 4-4 Through 4-8

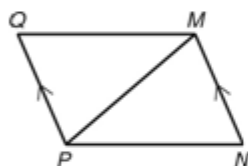
Choose the best answer.

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



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

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

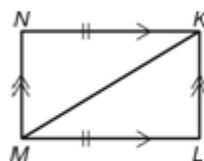


- F $\angle N \cong \angle Q$
 G $\angle MPN \cong \angle MPQ$
 H $\overline{MQ} \cong \overline{PN}$
 J $\overline{MN} \cong \overline{PQ}$

3. A parachute jumper called into the airport to be rescued by helicopter. She said her pilot flew 8 kilometers west and then headed due north about 20 minutes before she jumped. Does the helicopter pilot have enough information to locate her exact location?

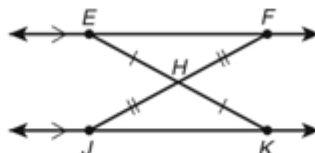
- A Yes, by AAS
 B Yes, by SAS
 C Yes, by HL
 D No

4. Which CANNOT be used to prove $\triangle MNK \cong \triangle KLM$?



- F SAS H AAS
 G ASA J HL

5. In the figure, H is the midpoint of \overline{EK} and \overline{FJ} . What reason can be used in a proof to show $\overline{EF} \cong \overline{JK}$?



- A AAS C Def. of bisects
 B ASA D CPCTC

6. Which is the best position of a square with side length 5 for a coordinate proof?

- F (5, 5), (10, 5), (10, 10), and (5, 10)
 G (0, 0), (5, 0), (5, 5), and (0, 5)
 H (1, 1), (6, 1), (6, 6), and (1, 6)
 J (-3, 0), (2, 0), (2, 5), and (-3, 5)

7. How can coordinate proof be used to prove two lines are parallel?

- A The product of their slopes is -1 .
 B The product of their slopes is 1.
 C The slopes are the same.
 D The y -intercepts are the same.

8. What is the measure of one of the base angles of an isosceles triangle if the measure of the vertex angle is 98° ?

- F 1° H 41°
 G 2° J 82°

9. One angle of an equilateral triangle measures $(4x - 20)^\circ$. What is the value of x ?

- A 2.5 C 12.5
 B 10 D 20

10. Suppose $\triangle MWR \cong \triangle CYQ$, $MW = 8$, $WR = 9$, and $CQ = 10$. What is MR ?

- F 8 H 10
 G 9 J 11