Chapter 7 - (7.1–7.5) Geometry Final Review

1. The Washington Monument in Washington, D.C., is about 556 ft tall. A three-dimensional puzzle of the Washington Monument is 24 in. tall. What is the ratio of the height of the puzzle to the height of the real monument?

Algebra **If $\frac{x}{y} = \frac{5}{8}$, which of the following must be true?**

2. $8x = 5y$

3. $5x = 8y$

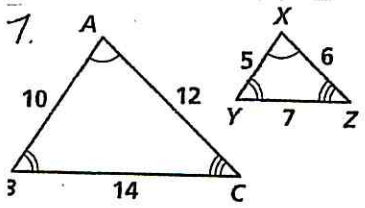
Algebra **Solve each proportion for x.**

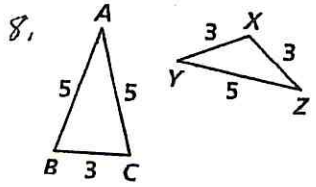
4. $\frac{6}{x} = \frac{2}{11}$

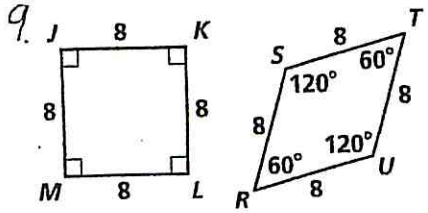
5. $\frac{x}{x+2} = \frac{3}{4}$

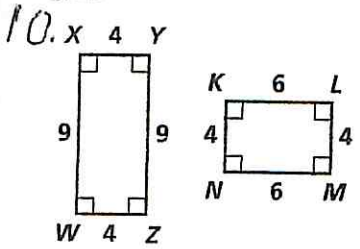
6. $\frac{x+1}{x} = \frac{7}{5}$

Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

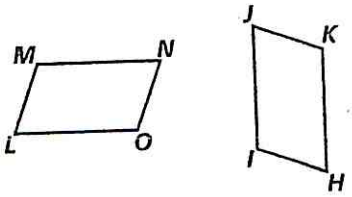
7. 

8. 

9. 

10. 

LMNO ~ HIJK. **Complete the proportions and congruence statements.**



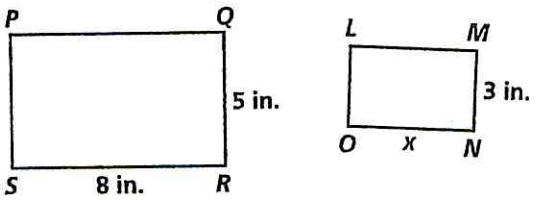
11. $\angle K \cong ?$

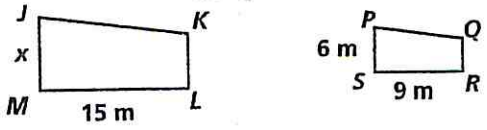
12. $\angle N \cong ?$

13. $\frac{HK}{?} = \frac{HI}{LM}$

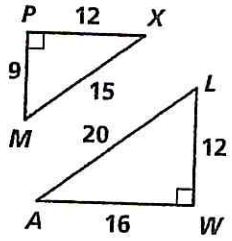
14. $\frac{IJ}{MN} = \frac{HK}{?}$

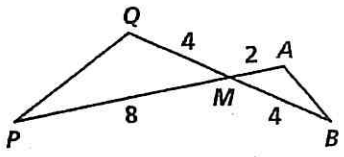
The polygons are similar. Find the values of the variable.

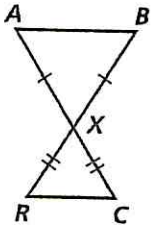
15. 

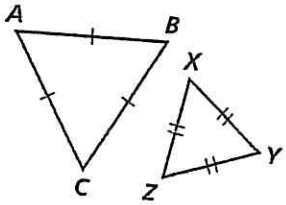
16. 

Explain why the triangles are similar. Write a similarity statement for each pair.

17. 

18. 

19. 

20. 

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