

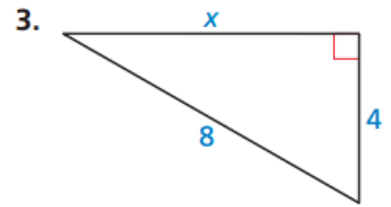
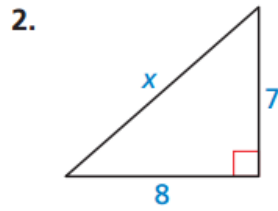
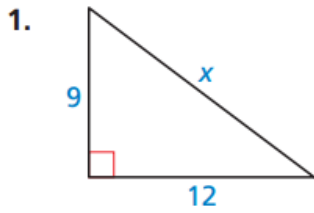
Name:

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HW #9-5: Quiz Review

Find the value of x . Give answers in exact (simplified completely) and approximate forms. Then tell whether the side lengths form a Pythagorean Triple.



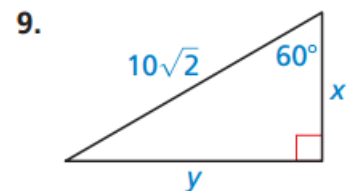
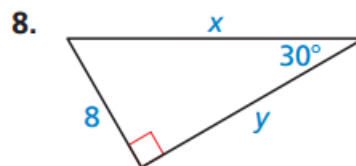
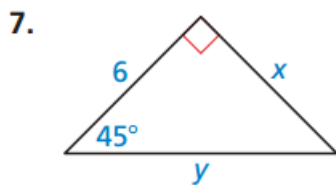
Verify that the segment lengths form a triangle. Is the triangle *acute*, *right* or *obtuse*?

4. 24, 32, and 40

5. 7, 9, and 13

6. 12, 15, and $10\sqrt{3}$

Find the values of x and y . Give answers in exact form only, simplified completely.



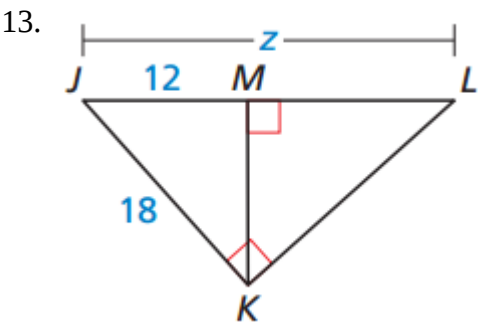
Find the geometric mean of the two numbers. Give answers in exact (simplified completely) and approximate forms.

10. 6 and 12

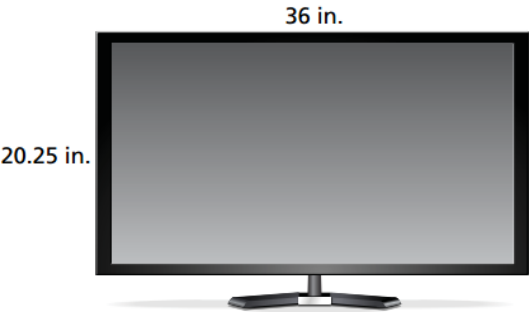
11. 15 and 20

12. 18 and 26

Write a similarity statement for the right triangles. Then, solve for the variable z and the lengths of segments $\overline{MK}$ and $\overline{LK}$. Give answers in exact (simplified completely) and approximate forms.



14. Television sizes are measured by the length of their diagonal. You want to purchase a television that is at least 40 inches. Should you purchase the television below? Explain your reasoning.



15. Each triangle shown below is a right triangle. Are any of these special right triangles? If so, which are 45-45-90 triangles? 30-60-90 triangles? Briefly explain how you know.

