Review for Radicals, 5-7, and 5-8 Name _____

ANSWER IN SIMPLEST RADICAL FORM. (NO DECIMALS)

Simplify.

1. $\sqrt{64}$

2. $\sqrt{40}$

3. $\sqrt{48}$

4. $\sqrt{\frac{3}{10}}$

5. $3\sqrt{12} \cdot \sqrt{6}$

6. $4\sqrt{3} \cdot \sqrt{3}$

7. $\frac{5\sqrt{2}}{4\sqrt{10}}$

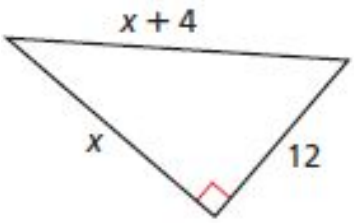
8. $(5\sqrt{3})^2$

Use the Pythagorean Theorem to find each value.

9. If a = 8 and b = 6, find c.

10. If a = $\sqrt{3}$ and b = $\sqrt{5}$, find c.

11.



Can the given lengths form a triangle? If so, state whether a triangle is <u>acute</u>, <u>right</u>, or <u>obtuse</u>.

12. 7, 8, 10

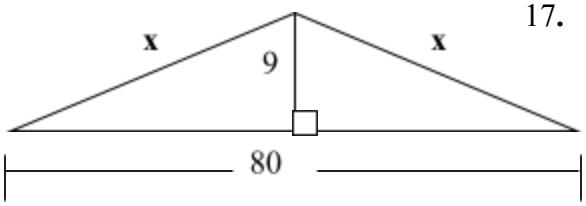
13. 6, 9, 11

14. 3, 9, $3\sqrt{10}$

15. Find the length of the diagonal of a square with perimeter 56. (HINT: Draw a picture)

Find each missing value.

16.



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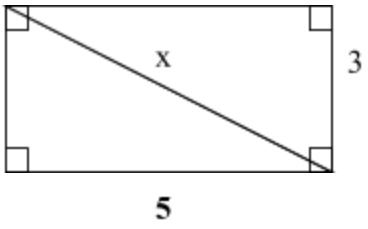

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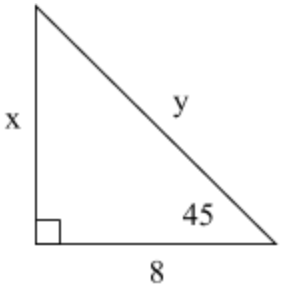

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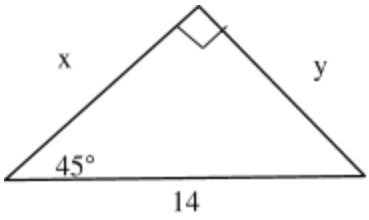

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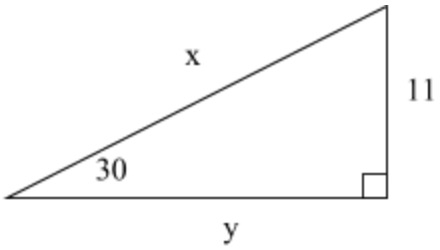

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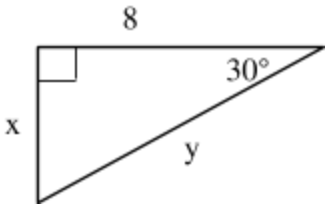

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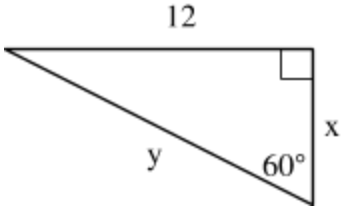

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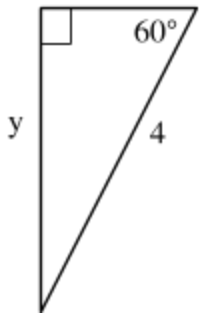

24. Find the perimeter and area of a 30°-60°-90° triangle with hypotenuse 20 ft.