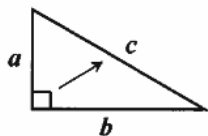


Warm Up

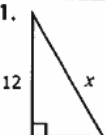
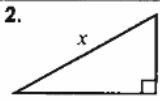
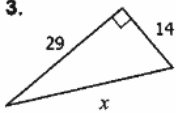
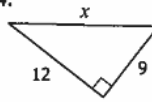
Set up new notebook table of
contents

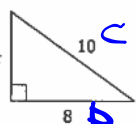
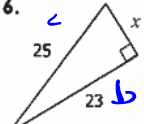
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples
----------------------	----------------

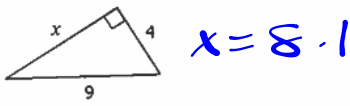
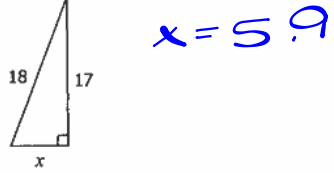
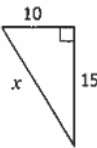
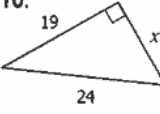
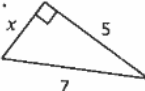
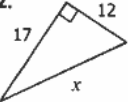
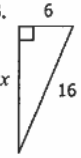
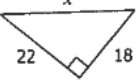
Parts of a Right Triangle	 <ul style="list-style-type: none"> Sides <u>a</u> and <u>b</u> are called <u>legs</u> Side <u>c</u> is called the <u>hypotenuse</u>
----------------------------------	---

What is the Pythagorean Theorem?	<p>The Pythagorean Theorem is used to find a missing side length on a <u>Right</u> triangle!</p> <p>Formula: $a^2 + b^2 = c^2$</p>
---	---

Finding the Hypotenuse	Directions: Find x. Round to the nearest tenth when necessary.	
	<p>1.  $x = 13$</p> $12^2 + 5^2 = x^2$ $144 + 25 = x^2$ $\sqrt{169} = \sqrt{x^2}$	<p>2.  $x = 23.4$</p> $18^2 + 15^2 = x^2$ $324 + 225 = x^2$ $\sqrt{549} = \sqrt{x^2}$
	<p>3.  $x = 32.2$</p>	<p>4.  $x = 15$</p>

Finding a Leg	<p>5.  $x = 6$</p> $x^2 + 8^2 = 10^2$ $x^2 + 64 = 100$ $\begin{array}{r} -64 \\ -64 \end{array}$ $\sqrt{x^2} = \sqrt{36}$	<p>6.  $x = 9.8$</p> $x^2 + 23^2 = 25^2$ $x^2 + 529 = 625$ $\begin{array}{r} -529 \\ -529 \end{array}$ $\sqrt{x^2} = \sqrt{96}$
----------------------	---	--

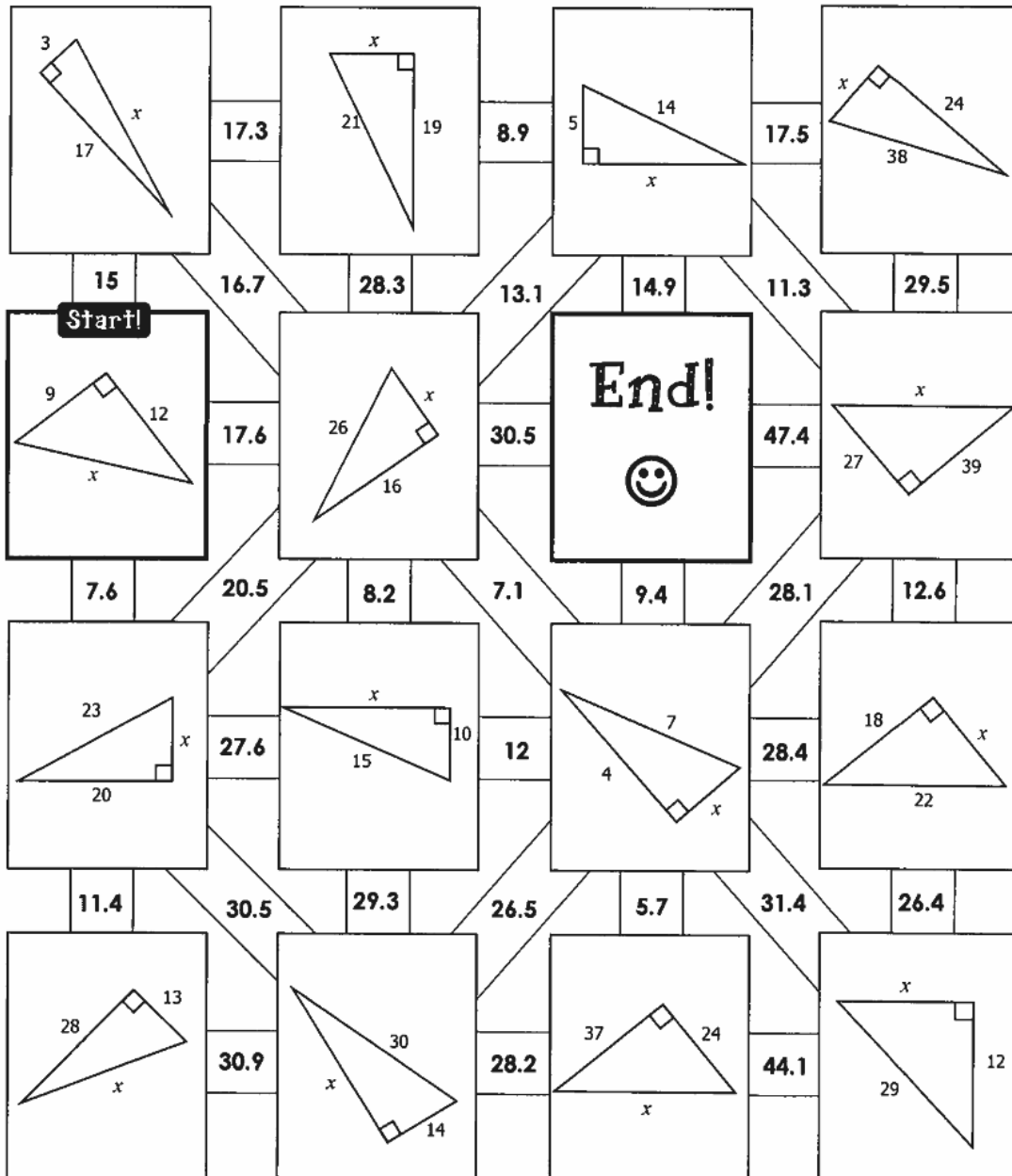
© Gina Wilson (All Things Algebra), LLC, 2017

	<p>7. </p>	<p>8. </p>
<p>Mixed Practice</p>	<p>9. </p>	<p>10. </p>
	<p>11. </p>	<p>12. </p>
	<p>13. </p>	<p>14. </p>
<p>Testing for a Right Triangle</p>	<p>Directions: Determine if the three given side lengths form a right triangle.</p>	
	<p>15. 10 cm, 15 cm, 20 cm</p>	<p>16. 7 in, 24 in, 25 in</p>
	<p>17. 4 ft, 9 ft, 10 ft</p>	<p>18. 14 m, 17m, 23 m</p>
	<p>19. 20 yd, 21 yd, 29 yd</p>	<p>20. 8 cm, 8 cm, 11 cm</p>

homework

Pythagorean Theorem Maze

Directions: Find each missing side. Round all answers to the nearest tenth. Use your solutions to navigate through the maze. **Staple all work to this paper!**



© Gina Wilson (All Things Algebra®), LLC, 2017

Complete as a group review
questions 1-25 posted in Google
Classroom