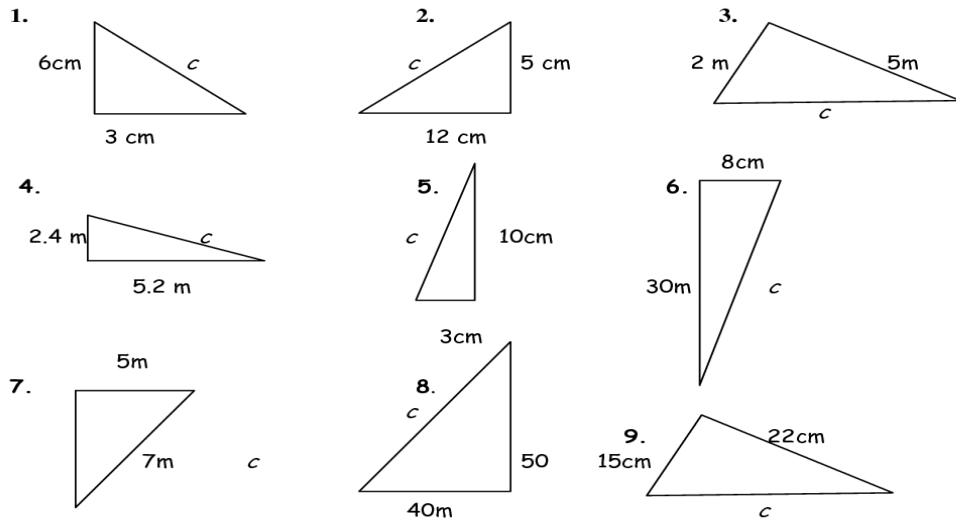


The Pythagorean Theorem Assignment

Name: _____ Class: _____ Date: _____

Find the length of the missing side in the following examples. Round answers to the nearest tenth, if necessary. **Please do and show all work on a separate piece of loose leaf!**



What is the length of the hypotenuse, c , of the following right angle triangles? **Show all work on a separate piece of loose leaf!**

- | | |
|-----------------------------------|-------------------------------------|
| 10. $a = 3$; $b = 4$; $c = ?$ | 15. $a = 8$; $b = 10$; $c = ?$ |
| 11. $a = 6$; $b = 8$; $c = ?$ | 16. $a = 15$; $b = 17$; $c = ?$ |
| 12. $a = 12$; $b = 5$; $c = ?$ | 17. $a = 40$; $b = 50$; $c = ?$ |
| 13. $a = 9$; $b = 12$; $c = ?$ | 18. $a = 4$; $b = 2$; $c = ?$ |
| 14. $a = 15$; $b = 20$; $c = ?$ | 19. $a = 1.2$; $b = 3.5$; $c = ?$ |
20. A ladder is leaning against the side of a 10m house. If the base of the ladder is 3m away from the house, how tall is the ladder? **Please draw a diagram and show all work.**