Measurement and Geometry 3.3

Introduction to Pythagorean Theorem

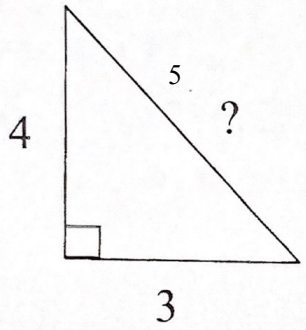
Name _____

Date _____

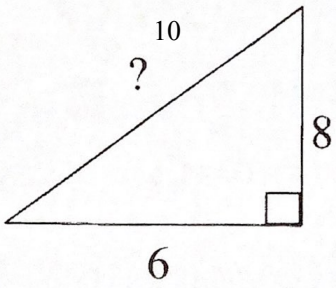
Period _____

Find the missing side lengths.

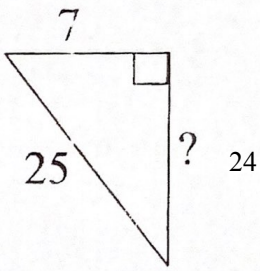
1.



2.



3.



A to the power of 2 + 7 = 25

A2 + 45 = 625

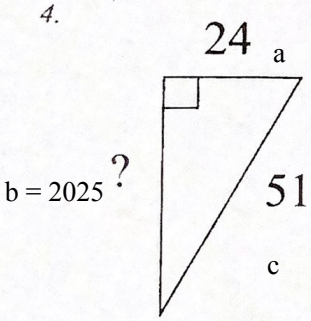
A2 = 576 a = 24

side = 5

side = 10

side = 24

4.



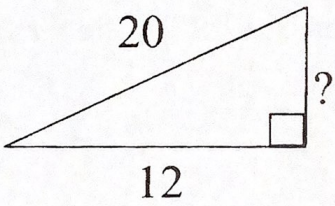
24^2 + b^2 = 51^2

576 + b^2 = 2601

576 576

0 2025

5.

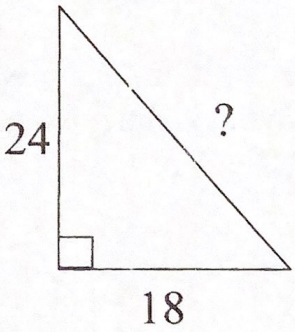


12^2 + b^2 = 20^2

144 + b^2 = 400

256

6.



side = x = 45

side = x =

side = _____

Draw a picture and find the missing side.

7. A right triangle has a short side of 15 and a hypotenuse of 17. What is the missing side?

side = _____

8. A right triangle has a short side of 15 and a hypotenuse of 39. What is the missing side?

side = _____

9. A right triangle has a short side of 9 and a short side of 12. What is the missing side?

side = _____

10. A right triangle has a short side of 21 and a hypotenuse of 75. What is the missing side?

side = _____

11. A right triangle has a short side of 30 and a hypotenuse of 34. What is the missing side?

side = _____