Measurement and Geometry 3.3

Introduction to Pythagorean Theorem

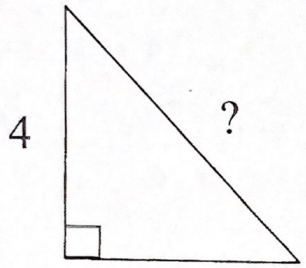
Name _____

Date _____

Period _____

Find the missing side lengths.

1.



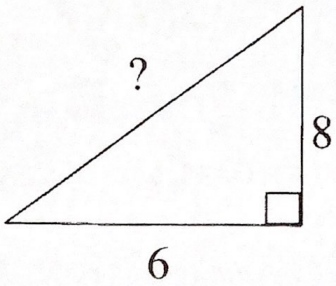
4 x 4 = 16

3 x 3 = 9

25

side = 5 = x

2.



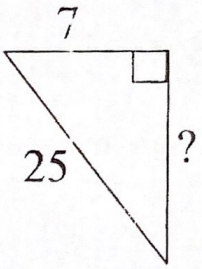
6 x 6 = 36

8 x 8 = 64

100

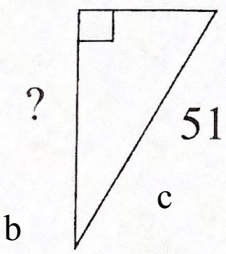
side = 10 = x

3.



side = x = 24

4.



24^2 + b^2 = 51^2

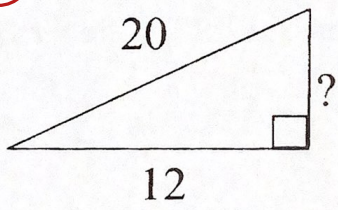
576 + b^2 = 2601

576 - 576

2025

side = x = 45

5.



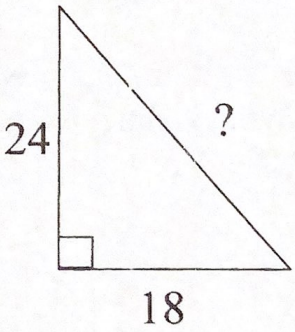
12^2 + b^2 = 20^2

144 + b^2 = 400

256

side = x = 16

6.



24 x 24 = 576

18 x 18 = 324

900

side = x =30

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 = _____