Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Pythagorean Theorem Worksheet**

1. What is the missing side length of ΔABC?

A

?

3

C

4

B

1. What is the missing side length of ΔDEF?

E

?

9

12

F

D

1. What is the missing length of ΔMNO?

12

N

O

15

?

P

1. What is the missing side length of ΔTUV?

24

U

T

?

30

V

1. What is the miss side length of ΔXYZ?

5

X

?

Z

4

Y

1. Is a triangle with side lengths of 14 feet, 11 feet, and 8 feet a right triangle?
2. Is a triangle with side lengths of 15 cm, 20 cm, and 25 cm a right triangle?
3. Is a triangle with side lengths of 4 feet, 16 feet, and 10 feet a right triangle?
4. What do the variables a, b, and c represent in the Pythagorean Theorem?
5. What is the length of the missing side of ΔABC to the nearest whole number?

B

16

21

?

C

A

1. A ladder is leaning against the side of a house. If the ladder’s base is 10 feet from the base of the house and the top of the ladder is 7.5 feet above the ground, how long is the ladder?
2. Sarah walked 12 blocks due west from her house to her friend’s house. She and her friend then walked 16 blocks due north to go to the mall. How far is Sarah from her house? (hint: draw a map to help set up the problem)