

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

Score : \_\_\_\_\_

## Two-Step Equations: Integers

Sheet 1

Solve each equation.

1)  $5n + 5 = 45$

2)  $\frac{y}{6} - 3 = -11$

3)  $4(g - 1) = 24$

4)  $\frac{v + 9}{15} = 0$

5)  $-40 = 12x + 8$

6)  $-2p - 3 = -19$

7)  $13 = \frac{w - 14}{2}$

8)  $36 = 1 + 7a$

9)  $-9 = -11 + \frac{b}{8}$

10)  $2q + 10 = 7q$

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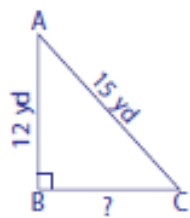
Score: \_\_\_\_\_

## Pythagorean Theorem

Sheet 1

Determine the missing length in each right triangle using the Pythagorean theorem. Round the answer to the nearest tenth.

1)



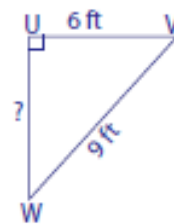
BC = \_\_\_\_\_

2)



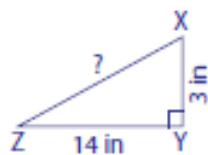
PQ = \_\_\_\_\_

3)



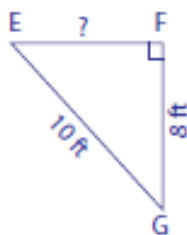
UW = \_\_\_\_\_

4)



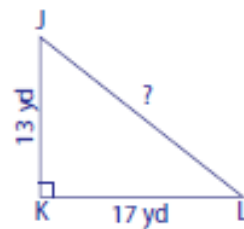
XZ = \_\_\_\_\_

5)



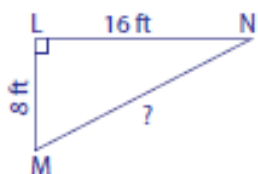
EF = \_\_\_\_\_

6)



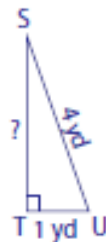
JL = \_\_\_\_\_

7)



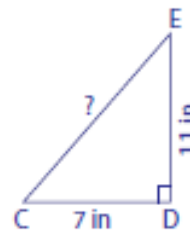
MN = \_\_\_\_\_

8)



ST = \_\_\_\_\_

9)



CE = \_\_\_\_\_

1)  $2(x + 5) = 16$

2)  $3(t + 1) = 18$

3)  $2(3y - 5) = 14$

4)  $4(3t - 2) = 88$

5)  $2(3x + 1) = 11$

6)  $6(3k + 5) = 39$

7)  $9(3x - 5) = 9$

8)  $3(t + 7) = 15$

9)  $5y + 4 = 3y + 6$

10)  $5t + 3 = 2t + 15$

11)  $6k + 5 = 2k + 1$

12)  $8s - 1 = 6s - 5$

13)  $5(x - 2) = 3(x + 4)$

14)  $3(h - 6) = 2(5 - 2h)$

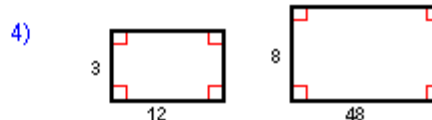
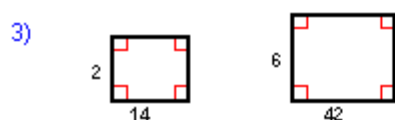
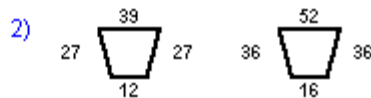
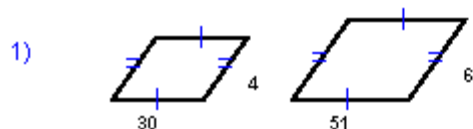
15)  $2(5c + 2) - 2c = 3(2c + 3) + 7$

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Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

### Similar Polygons

Determine whether the polygons are similar.



Each polygon pair is similar. Find the scale factor of the smaller shape to the biggest shape.

