

### 3.1/3.2 Solving one step equations

Name: KEY

I. Solve the equation:

1)  $-5 = x - 4$

$+4$   $+4$   
 $-1 = x$

2)  $12x = 132$

$\frac{12}{12}$   $\frac{132}{12}$   
 $x = 11$

3)  $\frac{3}{4} = x + \frac{1}{2}$

$\frac{1}{2}$   $-\frac{1}{2}$   $-\frac{1}{2}$   
 $x = \frac{1}{4}$

4)  $x - (-9) = -9$

$x + 9 = -9$   
 $x = -18$

5)  $|-11| = -2 + x$

$11 = -2 + x$   
 $13 = x$

6)  $12.6 = x - 7.5$

$+7.5$   $+7.5$   
 $20.1 = x$

7)  $-36x = -9$

$x = \frac{1}{4}$

8)  $25 = \frac{x}{-4}$

$-100 = x$

9)  $\frac{3}{5} \cdot -15 = \frac{5}{3}x \cdot \frac{3}{5}$

$-9 = x$

10)  $-\frac{2}{3}x = \frac{8}{21}$

$x = -\frac{4}{7}$

II. Write and solve an equation to answer the question:

- 11) About  $\frac{2}{5}$  of students participate in sports and drama. In what size school would you expect to find 330 students in sports and drama?

$\frac{2}{5}s = 330$   $\frac{2}{5}s = 330$   $s = 825$  students

- 12) You purchased 8 copies of a poster and paid \$79.60. How much did each poster cost?

$8p = 79.60$   
 $p = 9.95$

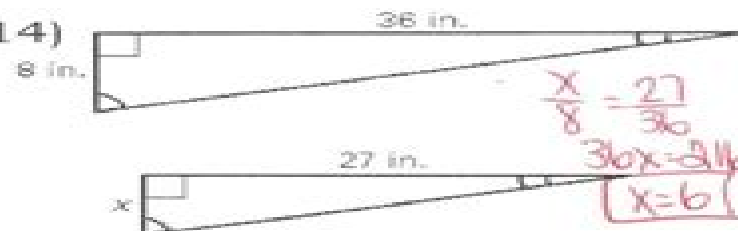
II. Find the length of the side marked x.

- 13) The perimeter is 30 feet.



$30 = 5 + 12 + x$   
 $30 = 17 + x$   
 $13 = x$

- 14)



$\frac{x}{8} = \frac{27}{36}$   
 $36x = 216$   
 $x = 6$

# Holt McDougal Algebra 2 Lesson 4.3 Logarithmic Functions

**Holt McDougal**

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