

## Quiz 12 Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each problem by setting up an equation. Convert percents to decimals. Use a calculator and round to the nearest tenth (one decimal place.)

Remember that 'of' means 'multiply' and 'is' means 'equals.' Use  $x$  for the unknown, or the 'what.'

1) 47% of 26 is what?

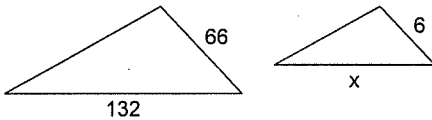
2) 4 is what percent of 65?

3) What is 19% of 103?

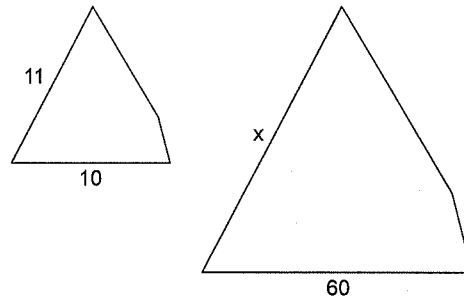
4) 158 is 19% of what?

Each pair of figures is similar. Set up a proportion and find the missing side.

5)



6)



Solve each proportion.

7)  $\frac{2}{7} = \frac{6}{a}$

8)  $\frac{5}{m+6} = \frac{4}{8}$

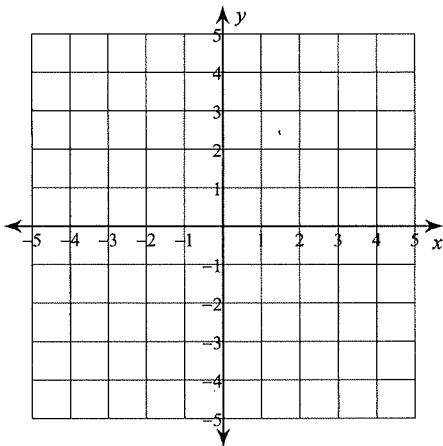
$$9) \frac{4}{n-10} = \frac{8}{n}$$

$$10) \frac{10}{6} = \frac{x+10}{x-6}$$

**Solve each system by graphing.**

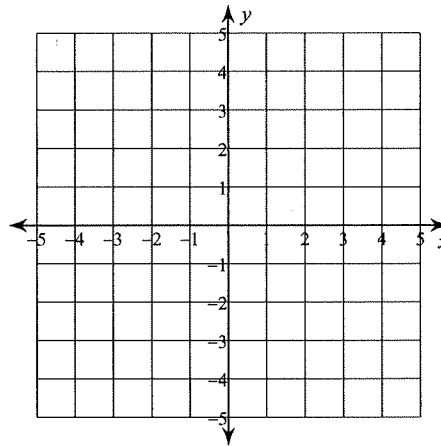
$$11) y = \frac{1}{2}x - 1$$

$$y = -x - 4$$



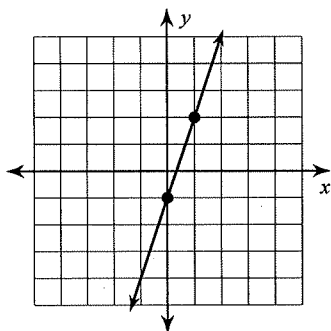
$$12) y = \frac{1}{4}x - 3$$

$$x = -4$$

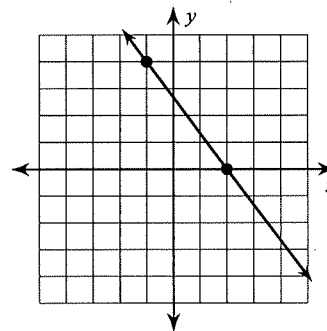


**Find the slope of each line.**

13)



14)



## Quiz 12 Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

Solve each problem by setting up an equation. Convert percents to decimals. Use a calculator and round to the nearest tenth (one decimal place.)

Remember that 'of' means 'multiply' and 'is' means 'equals.' Use  $x$  for the unknown, or the 'what.'

1) 47% of 26 is what?

12.2

2) 4 is what percent of 65?

6.2%

3) What is 19% of 103?

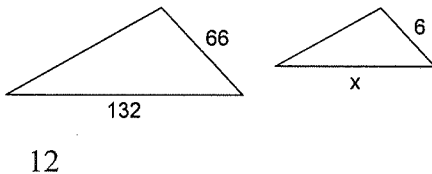
19.6

4) 158 is 19% of what?

831.6

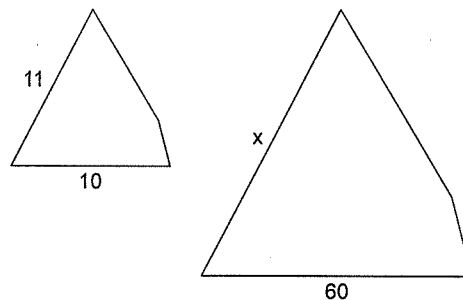
Each pair of figures is similar. Set up a proportion and find the missing side.

5)



12

6)



66

Solve each proportion.

7)  $\frac{2}{7} = \frac{6}{a}$

{21}

8)  $\frac{5}{m+6} = \frac{4}{8}$

{4}

$$9) \frac{4}{n-10} = \frac{8}{n}$$

{20}

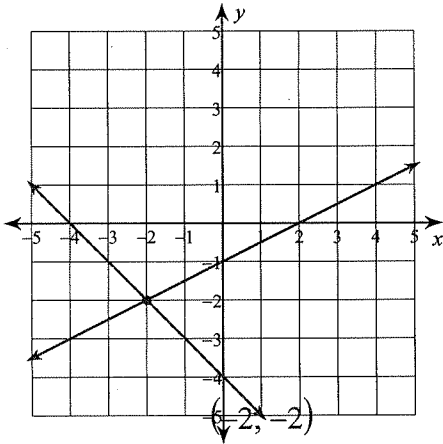
$$10) \frac{10}{6} = \frac{x+10}{x-6}$$

{30}

**Solve each system by graphing.**

$$11) y = \frac{1}{2}x - 1$$

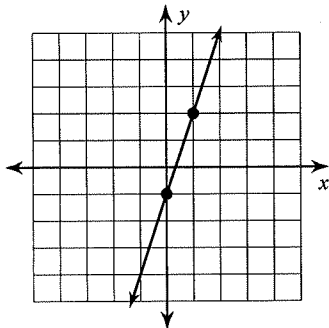
$$y = -x - 4$$



$(-2, -2)$

**Find the slope of each line.**

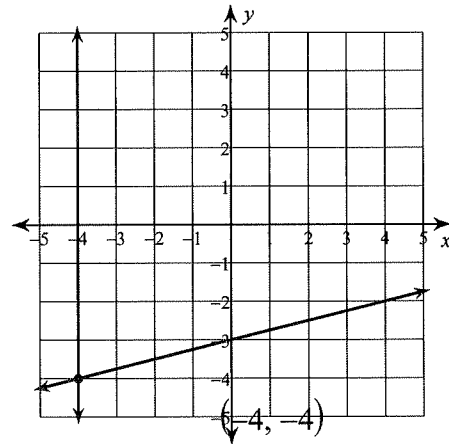
13)



3

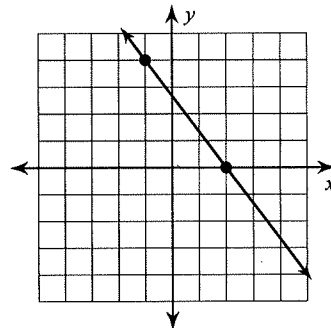
$$12) y = \frac{1}{4}x - 3$$

$$x = -4$$



$(-4, -4)$

14)



$-\frac{4}{3}$