

Quiz 13 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.'

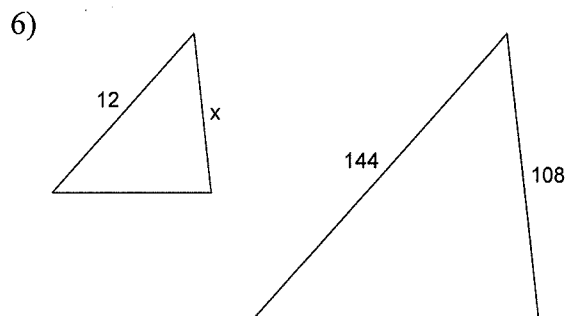
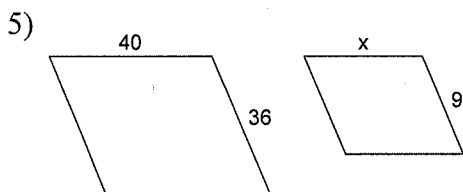
1) What is 19% of 23?

2) 89 is what percent of 120.2?

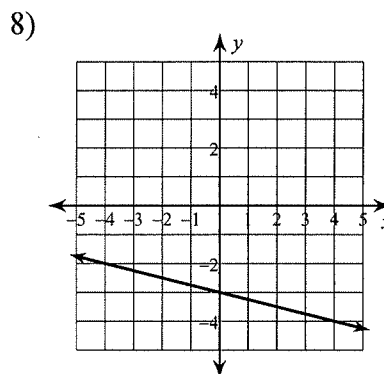
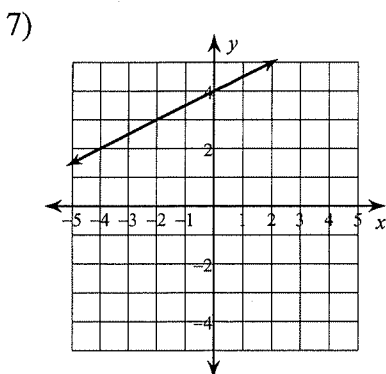
3) 52% of 38 is what?

4) 34% of what is 84?

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



Write the slope-intercept form of the equation of each line.



Solve each proportion.

$$9) \frac{r}{3} = \frac{7}{2}$$

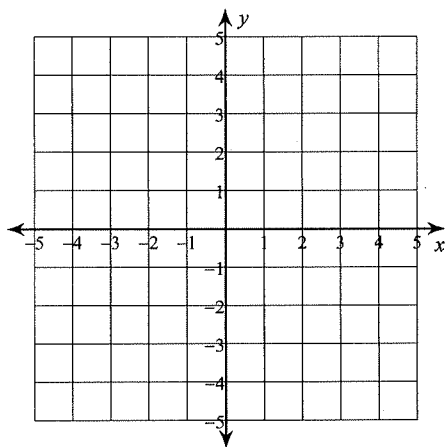
$$10) \frac{n-7}{4} = \frac{5}{8}$$

$$11) \frac{7}{8} = \frac{a+7}{a}$$

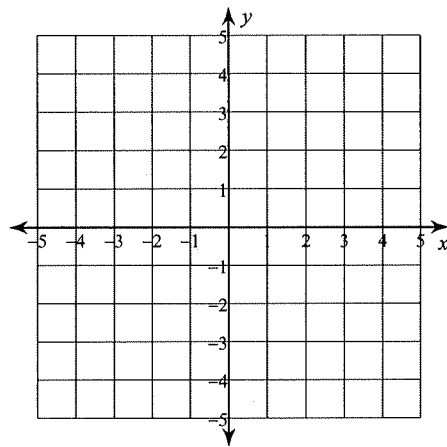
$$12) \frac{x-10}{7} = \frac{x-7}{6}$$

Solve each system by graphing.

$$13) \begin{aligned} x - 2 - 2y &= 0 \\ y &= 2 - \frac{1}{4}x \end{aligned}$$



$$14) \begin{aligned} y &= -x + 3 \\ y &= \frac{3}{2}x - 2 \end{aligned}$$



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1) What is 19% of 23?

4.4

2) 89 is what percent of 120.2?

74%

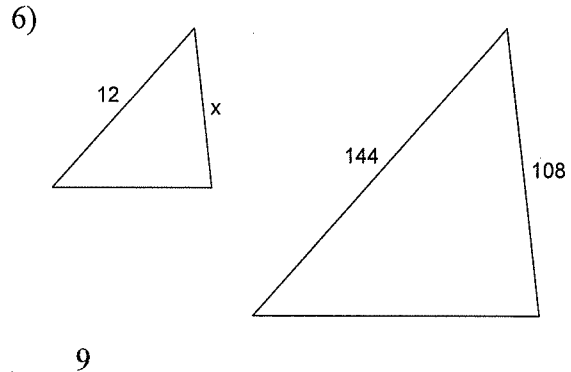
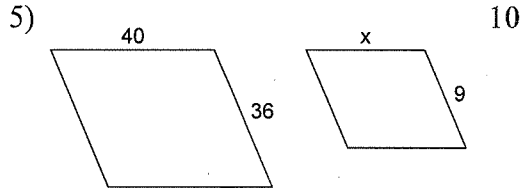
3) 52% of 38 is what?

19.8

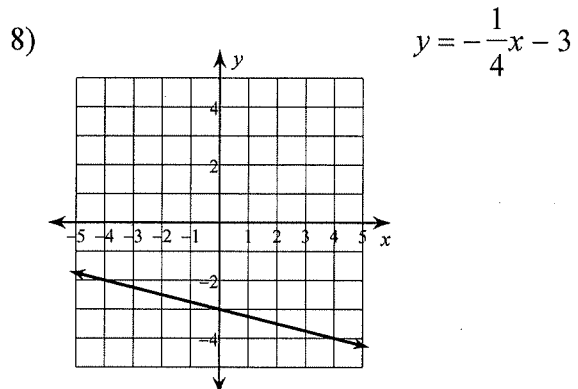
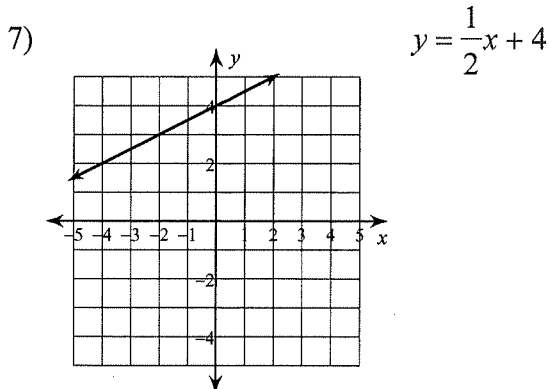
4) 34% of what is 84?

247.1

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



Write the slope-intercept form of the equation of each line.



Solve each proportion.

$$9) \frac{r}{3} = \frac{7}{2}$$

{10.5}

$$10) \frac{n-7}{4} = \frac{5}{8}$$

{9.5}

$$11) \frac{7}{8} = \frac{a+7}{a}$$

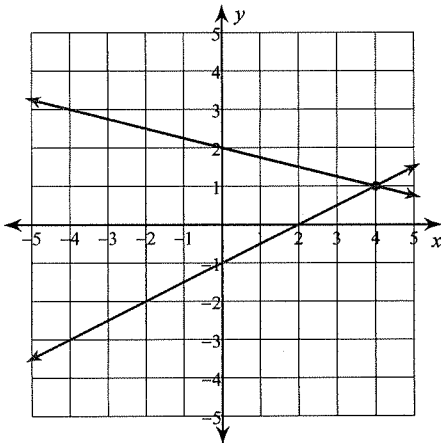
{-56}

$$12) \frac{x-10}{7} = \frac{x-7}{6}$$

{-11}

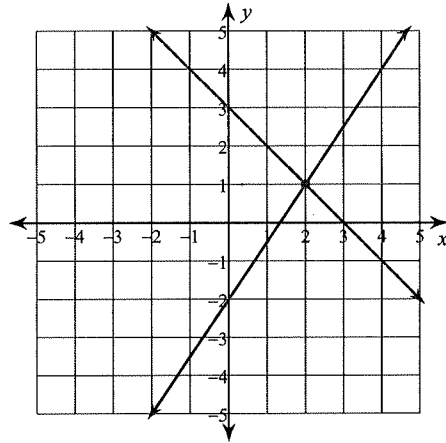
Solve each system by graphing.

$$13) \begin{aligned} x - 2 - 2y &= 0 \\ y &= 2 - \frac{1}{4}x \end{aligned}$$



(4, 1)

$$14) \begin{aligned} y &= -x + 3 \\ y &= \frac{3}{2}x - 2 \end{aligned}$$



(2, 1)
(2, 1)