

Practice 4.1

SOLVING PROPORTIONS. Solve the proportion.

$$1. \quad 3 \cdot \frac{2}{5} = \frac{x}{8} \cdot 3$$

$$\boxed{\frac{6}{5} = x}$$

$$2. \quad \frac{c}{8} = \frac{11}{4} \cdot 8^2$$

$$\boxed{c = 22}$$

$$3. \quad \frac{16}{7} = \frac{m}{22} \cdot 21$$

$$\boxed{48 = m}$$

$$3 \quad 24. \quad \frac{5}{8} = \frac{t}{24} \cdot 24$$

$$\boxed{15 = t}$$

$$20. \quad \frac{p}{20} = \frac{8}{4} \cdot 20^5$$

$$\boxed{p = 40}$$

$$3 \quad 26. \quad \frac{16}{48} = \frac{n}{36} \cdot 36$$

~~$$\boxed{12 = n}$$~~

$$12 = n$$

WRITING AND SOLVING PROPORTIONS. Write the sentence as a proportion. Then, solve the proportion.

7. b is to 10 as 7 is to 2

$$10. \quad \frac{b}{10} = \frac{7}{2} \cdot 10^5$$

$$\boxed{b = 35}$$

8. 12 is to 18 as d is to 27

$$3 \quad 27. \quad \frac{12}{18} = \frac{d}{27} \cdot 27$$

$$\boxed{18 = d}$$

SOLVING PROPORTIONS. Solve the proportion.

$$(0.5) \quad 9. \quad \frac{b}{0.5} = \frac{9}{2.5} \cdot (0.5)$$

$$b = \frac{4.5}{2.5}$$

$$\boxed{b = 1.8 \text{ (or } \frac{9}{5})}$$

$$8.8 \quad 10. \quad \frac{2.1}{7.7} = \frac{v}{8.8}$$

$$\boxed{2.4 = v}$$

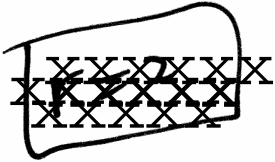
$$4. \quad \frac{3a}{4} = \frac{26}{12} \cdot 4$$

$$3a = 12$$

$$\boxed{a = 4}$$

~~10~~
12. $\frac{6r}{10} = \frac{36}{15} \cdot 10^2$

$6r = 12 \times 2$



$r = 4$

~~8~~
13. $\frac{m+3}{8} = \frac{40}{64} \cdot 8^1$

$m+3 = 5$

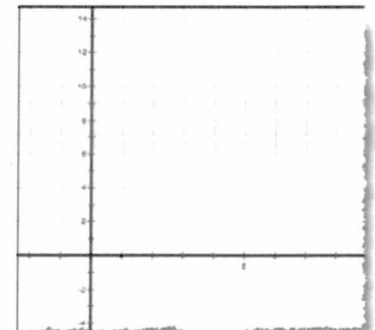
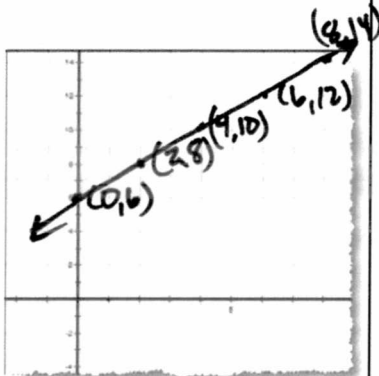
$m = 2$

~~8~~
14. $\frac{7}{112} = \frac{c-3}{8}$

$\frac{56}{112} = \frac{c-3}{8} + 3$

$3.5 = c$

Quick Review	1. $\left(\frac{9}{10}\right)\left(\frac{5}{3}\right)$ (hint: Cross Cancel!)	2. Evaluate if $x = 3$ and $y = -4$ $\frac{x-y}{-y}$	3. Use GEMDAS! $4 - 4\left(\frac{5 \cdot 2}{20}\right)\left(\frac{1}{2}\right)$
	Coming Up	Graph the function $y = x + 6$; over the domain: 0, 2, 4, 6, 8 (hint: domain = x values!)	Graph the function $y = 12 - 2x$ over the domain: 0, 2, 4, 6, 8



plug in x-values to
 $y = x + 6$