

HW: Feb. 13 Answer Key

HW

11.)

12	?
----- whole -----	
25	

$$\frac{\text{Part}}{\text{whole}} = \frac{\text{Percent}}{100}$$

$$\frac{12}{25} = \frac{x}{100}$$

$$25x = 12(100)$$

$$\frac{25x}{25} = \frac{1200}{25}$$

$x = 48\%$

20.)

?	15
----- whole -----	
140	

$$\frac{x}{140} = \frac{15}{100}$$

$$100x = 15(140)$$

$$\frac{100x}{100} = \frac{2100}{100}$$

$x = 21 \text{ students}$

13.)

9	?
----- whole -----	
x	

$$\frac{9}{x} = \frac{25}{100}$$

$$25x = 900$$

$$\frac{25x}{25} = \frac{900}{25}$$

$x = 36$

21.)

180	?
----- whole -----	
?	

$$\frac{180}{x} = \frac{3}{100}$$

$$3x = 180(100)$$

$$\frac{3x}{3} = \frac{18000}{3}$$

$x = 6000 \text{ in sales}$

15.)

?	75
----- whole -----	
124	

$$\frac{x}{124} = \frac{75}{100}$$

$$100x = 124(75)$$

$$\frac{100x}{100} = \frac{9300}{100}$$

$x = 93$

17.)

?	?
----- whole -----	
40	

$$\frac{x}{40} = \frac{0.4}{100}$$

$$100x = 0.4(40)$$

$$\frac{100x}{100} = \frac{16}{100}$$

$x = 0.16$

26.)

completed	?
----- whole -----	
32	

$$\frac{x}{32} = \frac{87.5}{100}$$

$$100x = 32(87.5)$$

$$\frac{100x}{100} = \frac{2800}{100}$$

$x = 28 \text{ completed}$

$\frac{32}{-28} = \frac{4}{4}$ need to complete

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27.)

$$\frac{125}{100} = \frac{10.5}{x}$$

$$125x = 10.5(100)$$

$$\frac{125x}{125} = \frac{1050}{125}$$

$$x = 8.4$$

$$\boxed{8.40}$$

28.) $26 + 30 = 56$ total = 84

$$\frac{56}{84} = \frac{\text{Percent}}{100}$$

$$\frac{56}{84} = \frac{x}{100}$$

$$\frac{5600}{84} = \frac{84x}{84}$$

$$x = 66.6\bar{6}$$

$$\boxed{67\%}$$