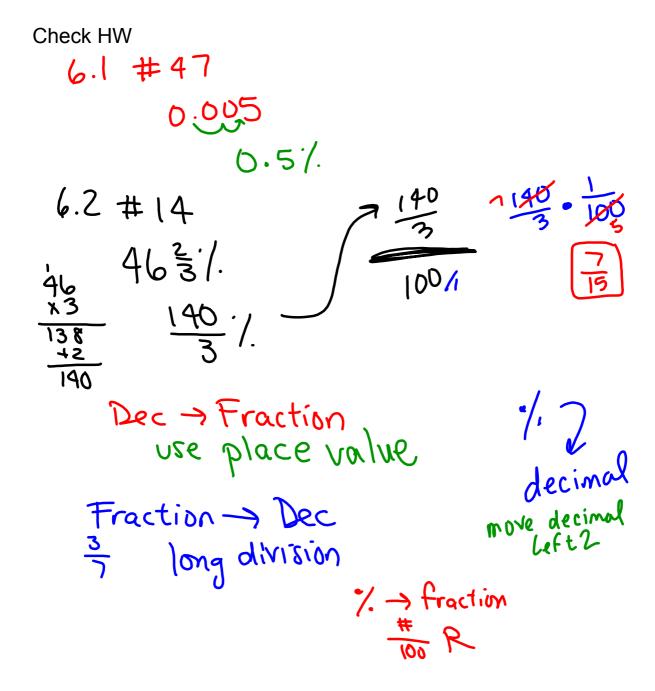# Warm-Up (answer all)

Fill in the blanks.

(a) 100% of 765 workers is _765 workers_.

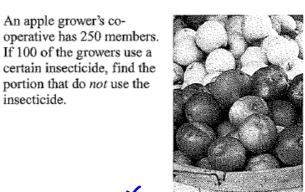(b) 200% of 48 letters is _96 letters_.

(c) 300% of 7 videos is _21 videos_.

Fill in the blanks.

(a) 50% of 1050 homes is _525 homes_.

(b) 10% of 370 printers is _37 printers_.

(c) 1% of $8 sales is _$0.08_.

$\dfrac{1}{100}$　　$\dfrac{1}{100}$　.08.00

☆ $\dfrac{32}{56}$ *is what percent?*

$$\frac{32}{56} = \frac{x}{100}$$

$$\frac{3200}{56} = \frac{56x}{56}$$

$$x = 57.1\%$$

Check HW

6.1 # 47

0.005

0.5%

6.2 # 14

46$\frac{2}{3}$%

$\begin{array}{r} \overset{1}{46} \\ \times\ 3 \\ \hline 138 \\ +2 \\ \hline 140 \end{array}$

$\frac{140}{3}$%

$\dfrac{\frac{140}{3}}{100}$ ⟶

$\frac{140}{3} \cdot \frac{1}{100}$ → $\boxed{\frac{7}{15}}$

Dec ⟶ Fraction
use place value

Fraction ⟶ Dec
$\frac{3}{7}$ long division

%↴
decimal
move decimal
Left 2

% ⟶ fraction
$\frac{\#}{100}$ R

Fraction	Decimal	Percent	
54. 3/8	0.375	37.5% 37.5%	**80.** An apple grower's co-operative has 250 members. If 100 of the growers use a certain insecticide, find the portion that do *not* use the insecticide.
55. 1/8	0.125	12.5% 12.5%	
56. 5/8	0.625 0.625	62.5%	
57. $\frac{2}{3}$ 2/3	0.66	66.6%	
58. $\frac{5}{6}$ 5/6	0.833	83.3%	
59. $\frac{3}{50}$ 3/50	0.06	6%	

$$\frac{2}{50} = \frac{x}{100}$$

6.3 Using the Percent Proportion

Percent Proportion is

$$\frac{part}{whole} = \frac{percent}{100} \text{ always } 100!$$

Ex 1 Using the Percent Proportion

a) part =12, percent = 25, find the whole

$$\frac{12}{x} = \frac{25}{100}\frac{1}{4} \qquad x = 48$$

b) part = 30, whole= 50, find the percent

$$\frac{30}{50}\cdot\frac{.2}{.2} = \frac{x=60}{100}$$

Ex 2/3/4 Identifying the pieces

Which are the whole, part and percentage in each

a) 32% of the 900 men were retired

part: unknown   percent: 32%

Whole: 900

$\frac{32}{x} = \frac{25}{50}$

b) $150 is 25 percent of what number?

part: $150   percent: 25%

whole: Unknown

$$\frac{150}{x} \overset{6}{=} \frac{25}{100}$$

c) What percent of the 350 women will go?

part: unknown   percent: unknown

Whole: 350

$$\frac{x}{350} = \frac{y}{100}$$

d) 85% of 700 is what number?

part: Unknown   percent 85%

Whole: 700