7-5 Using Percent Equation

A percent equation is an equivalent form of the percent proportion in which the percent is written as a decimal.

Part is =
$$\frac{\%}{100}$$
 Proportion $\frac{\%}{\%}$ 25% = 0.25
Find 621. of 75
 $N = 0.62(75)$ Is = of X

1A) find 60% of 96 1B) find 459. of 70

$$n = 0.6 (96)$$
 $n = 57.6$
 $n = 31.5$

Example 2

$$287 \text{ is what percent of 410}$$
 $\frac{287}{410} = P(410)$
 $\frac{410}{410}$
 $0.7 \neq P$
 $0.70_{10} = 70\%$

2A.)

15 is what percent of 125

$$\frac{15}{125} = p(125)$$
 $\frac{13}{125} = p(125)$

0.12 = P

0.12 = 12%

2B.) 20 is what percent of 450

 $\frac{20}{400} = p(400)$

0.05 = P

0.05 = 5%

3)
$$33 \text{ is } 55\% \text{ of what number?}$$

$$33 = 0.55 \text{ n.}$$

$$0.55 \quad 0.55$$

$$60 = \text{ n.}$$

3A)
$$18 = 30\%$$
 of what number?

 $18 = 0.3 \text{ n}$ equation

 $0.3 \quad 0.3$

60 = n

3B.) $79 = 0.8 \text{ n}$
 $19 = 0.8 \text{ n}$
 $10 = 0.8 \text{ n}$

4.)
$$175,000 (0.24) = profit$$
 $42,000 = p$
 $175,000.00$
 $+\frac{42,000.00}{217,000.00}$
 $175,000.00 + 100% + 24% = total$
 $175,000 (1.24) = 4217,000$

5.)
$$47.70 = 45 \text{ p}$$

$$1.06 = \text{perant}$$

$$1.06 = 1007. \text{ or } 1 + 67. \text{ or } 0.06 \text{ for } 1.06$$
the perent = 67. (0.06)

$$47.70$$

$$-45.00$$

$$-45.00$$
\$ 2.70 = 45 p
$$45 = 45 \text{ p}$$
\$ 2.70 tox

P. 360
7 and #8
7.
$$95(0.2) = 1$$

 $19 = 1$
 20% more than last yn
 $95+19 = 114$ boxes

#8.)
$$\begin{array}{r}
5290.92 \\
-4968.00
\end{array}$$

$$\begin{array}{r}
4322.92 = 4968 \\
4968
\end{array}$$

$$\begin{array}{r}
4968 \\
4968
\end{array}$$

$$\begin{array}{r}
6.57 \\
0.065 = p
\end{array}$$

$$\begin{array}{r}
4968.00 \\
4968.00
\end{array}$$

$$\begin{array}{r}
4968 \\
4968
\end{array}$$

$$\begin{array}{r}
6.57 \\
6.5
\end{array}$$

$$\begin{array}{r}
6.57 \\
6.5
\end{array}$$

$$\begin{array}{r}
4968.00 \\
6.5
\end{array}$$