$\qquad$
5.3 Solving Percent Problems - Notes (Day 2)

Type 1: Finding the Percent
a) What percent is 48 out of 60 ?

$$
\frac{\text { Part }}{\text { Whole }}=\frac{0}{100}
$$

$\frac{48}{60}=\frac{x}{100}$ $\begin{aligned} \frac{60 x}{60} & =\frac{4800}{60} \\ x & =80 \%\end{aligned}$
Type 2: Finding the Part
b) What is $312 \%$ of 26 ?

$$
\frac{P}{W}=\frac{\%}{100}
$$

$\frac{x}{26}=\frac{312}{100}$

$$
\begin{aligned}
\frac{100 x}{100} & =\frac{8112}{100} \\
x & =81.12
\end{aligned}
$$

top:bottom

decimal

$3.12 \times 26=81.12$

Type 3: Finding the Whole
c) $2.25 \%$ of a number is 72 . What is the number?

$$
\begin{aligned}
\frac{P}{w} & =\frac{\%}{100} \\
\frac{72}{x} & =\frac{2.25}{100} \\
\frac{2.25 x}{2.25} & =\frac{7200}{2.25} \\
x & =3200
\end{aligned}
$$


$n=3200$

Percent Increase/Decrease: $0 \quad$ N
d) The price of a carton of milk in the school cafeteria increased from $\$ 0.95$ to $\$ 1.25$. What was the percent increase in the price?

$$
\% \text { change }=\frac{\text { New Amount }- \text { Original/old Amount }}{\text { Original amount }} \times 100
$$

$$
=\frac{1.25-0.95}{\text { Original amount }} \times 100
$$

$$
=\frac{0.3}{0.95} \times 100 \underbrace{0_{10}} N
$$

e) The price of for green salad decreased from S.2.50 to 81.95

The \% decrease is $22 \%$

