## Algebra I

3-7
(Day 1)
Solve Percent Problems


Solve.
5) The chess club has a goal of 36 new members. So far, they have 30 . What percent of the club's goal have they achieved?

$$
\begin{aligned}
& \left(\frac{30}{36}=\frac{P}{100}\right)^{100} \\
& 83 . \overline{3}=P \\
& \left\{83 \frac{1}{3} 7\right\}
\end{aligned}
$$

Percent parts per 100
0

The Percent Proportion -

$$
\frac{a}{b}=\frac{p}{100}
$$

$$
\frac{3}{4}=\frac{p}{100}
$$

$$
P=75
$$

$$
75 \%
$$

Solve.
3) What percent of 45 is 7.2 ?
$\frac{x \cdot 45}{45}=\frac{7.2}{45}$
$x=.16$
$\{16 \%$ \}
or
$\left(\frac{P}{100}=\frac{7.2}{45}\right)_{100}$
$P=16$
$\{16 \%$ \}
4) What number is $75 \%$ of 164 ?
$x=(.75)(164)$
$x=123$
\{123\}

$123=x$
\{123\}
6) A scale model of a home is $5 \%$ of its original size, If the height of the actual house is 30 feet, how tall will the model be?


To change a percent to a decimal, move decimal 2 places to the left.

Assignment:
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2, 3-17 odd,
22, 23, 26-29
33-35 all.

