Percent explanations -- REB 10-28-2017

Percent Explanations

The basic equation of percents:

Part	Rate%	
Base	100	
_		
Р	<i>R</i> %	

Abbreviated form:

· _	_ 1170
\overline{B}	100

Example:

7 _	87.5%
8	100

To find out if this right:

Check for equivalence:

$$7 \times 100 = 700$$

 $8 \times 87.5 = 700$ } Equivalent

For percent problems, there are three elements:

P B

R%

To work a percent problem, you must know two of these, then solve for the third.

Version 01/16/2020	RE Brown: Kishwaukee College	Page 1
VCI 51011 0 1/ 10/ 2020		1050 1 -

To solve for P:

$$P = \frac{B \times R\%}{100}$$

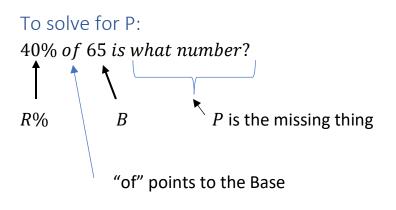
To solve for B:

$$B = \frac{P \times 100}{R\%}$$

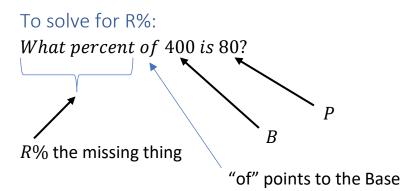
To find R%:

$$R\% = \frac{P \times 100}{B}$$

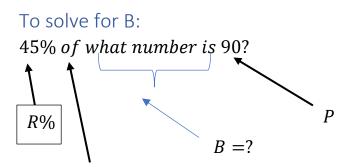
Examples:



$$P = \frac{B \times R\%}{100}$$
$$P = \frac{65 \times 40\%}{100}$$
$$= \frac{2600}{100}$$
$$P = 26$$



$$R\% = \frac{P \times 100}{B}$$
$$R\% = \frac{80 \times 100}{400}$$
$$= \frac{8000}{400}$$
$$R = 20\%$$



"of" points to the Base; which we are having to solve for.

$$B = \frac{P \times 100}{R\%}$$
$$B = \frac{90 \times 100}{15\%}$$
$$= \frac{9000}{15\%}$$
$$B = 60$$

Version 01/16/2020