



2.4 Percent

Need To Know

- Percentage Notation
- Percent Equations
- Percent Word Problems




Percentage

Recall percent means _____.

Percent is a concept. It must be translated into a numerical value.

Percent Notation: $n\%$ means _____

Percent	Decimal	Fraction
50%	0.50	$\frac{1}{2}$
25%	0.25	$\frac{1}{4}$
140%	1.40	$\frac{140}{100} = \frac{7}{5}$



Practice

Fill in the blanks

Percent	Decimal	Fraction
4.8%		
	9.2	
		$\frac{7}{25}$



Solve Percent Equations

What number is 75% of 40?

What percent of 20 is 14?

12% of what is 240?



Percent Translation

Definition – A _____ is a pseudo sentence that describes the mathematics of a common situation.

Many percent problems follow this verbal model:



Percent Translation

Verbal model "A percent of the whole is the part."

Example: This ice cream is 150 calories. 90 calories of it is fat calories which is 60%.

Percent =

The whole =

The part =

A percent of the whole is the part.



Percent Word Problems

If a serving of ice cream is 65 grams and the container says that each serving has 11 grams of sugar, what percent of the ice cream is sugar?



Percent Word Problems

A tax exempt charity was charged \$1205.45 for their new computer. The bill incorrectly added on 5% sales tax. How much should the charity have been charged. (Hint: 105%)