

Pre-Algebra

Essential Questions: What is a percent? How do we find the percent of a number?

Do Now: Match the phrase with the percent.

PHRASE	PERCENT
1. 5 cubic inches of water filled in a 20 cubic inch bottle	75%
2. 15 out of 50 play drums in a band	300%
3. Instead of the \$1200 expected to be raised, \$3600 was collected for the school's fundraiser	1%
4. 35 out of 35 questions were answered correctly	25%
5. The chance of landing on heads with a flip of a coin	10%
6. One penny out of one dollar	30%
7. \$20 out of \$200 earned is put in savings	100%
8. There are 12 girls in a class of 16 students	50%

A **Percent** compares a number to 100. It's a ratio that compares a ***part*** to a ***whole*** using 100.

Write each percent as a simplified ratio.

a. 22%

b. 6%

c. 189%

Write each percent as a decimal.

a. 59%

b. $\frac{3}{4}\%$

c. 139%

Equivalent Forms of Numbers - complete the table below

Fraction	Decimal	Percent
$\frac{1}{3}$		
	1.125	
		0.4%

Finding the Percent of a Number

Find 32% of 62

1st Method – Multiply by Fraction/Decimal

2nd Method – Percent Proportion

Examples:

1. Find 7% of 30

2. What is $15\frac{1}{2}\%$ of 160?

3. Find 120% of 4.8

4. What is $66\frac{2}{3}\%$ of 399?