

Name: _____

Date: _____

Percent a number or ratio that represents a number out of 100
 per - cent
 out of ↑ ↑ French for 100

Examples Write the percent as a fraction and a decimal.

$$18\% \\ = \frac{18}{100}$$

18.

$$= 0.18$$

$$35\%$$

$$= \frac{35}{100}$$

.35.

$$= 0.35$$

$$96\%$$

$$= \frac{96}{100}$$

96.

$$= 0.96$$

$$135\%$$

$$= \frac{135}{100} = 1\frac{35}{100}$$

135.

$$= 1.35$$

$$542\%$$

$$= \frac{542}{100} = 5\frac{42}{100}$$

542.

$$= 5.42$$

$$321\%$$

$$= \frac{321}{100} = 3\frac{21}{100}$$

321.

$$= 3.21$$

$$2.4\%$$

$$* = \frac{2.4}{100} \left(\frac{10}{10} \right)$$

0.2, 4

$$= \frac{24}{1000}$$

$$= 0.024$$

$$3.1\%$$

$$= \frac{3.1}{100} \left(\frac{10}{10} \right)$$

0.3, 1

$$= \frac{31}{1000}$$

$$= 0.031$$

$$1.99\%$$

$$= \frac{1.99}{100} \left(\frac{100}{100} \right)$$

$$= \frac{199}{10000}$$

0.1, 99

$$= 0.0199$$

Without a calculator?

take your percent and move the decimal
 from its current position 2 spots to
 the left.

Example Convert each fraction to a percent. Round to the nearest hundredth.

$$\frac{6}{15} = \frac{x}{100}$$

$$6 \times 100 = 15x$$

$$\frac{600}{15} = \frac{15x}{15}$$

$$x = 40\%$$

$$\frac{40}{54} = \frac{x}{100}$$

$$40 \times 100 = 54x$$

$$\frac{4000}{54} = \frac{54x}{54}$$

$$x = 74.07\%$$

$$\frac{23}{21} = \frac{x}{100}$$

$$23 \times 100 = 21x$$

$$\frac{2300}{21} = \frac{21x}{21}$$

$$x = 109.52\%$$

$$\frac{9}{11} = \frac{x}{100}$$

$$9 \times 100 = 11x$$

$$\frac{900}{11} = \frac{11x}{11}$$

$$x = 81.82\%$$

$$\frac{86}{142} = \frac{x}{100}$$

$$86 \times 100 = 142x$$

$$\frac{8600}{142} = \frac{142x}{142}$$

$$x = 60.56\%$$

$$\frac{56}{12} = \frac{x}{100}$$

$$56 \times 100 = 12x$$

$$\frac{5600}{12} = \frac{12x}{12}$$

$$x = 466.67\%$$

$$\frac{2}{54} = \frac{x}{100}$$

$$2 \times 100 = 54x$$

$$\frac{200}{54} = \frac{54x}{54}$$

$$x = 3.70\%$$

$$\frac{67}{76} = \frac{x}{100}$$

$$67 \times 100 = 76x$$

$$\frac{6700}{76} = \frac{76x}{76}$$

$$x = 88.16\%$$

$$\frac{96}{95} = \frac{x}{100}$$

$$96 \times 100 = 95x$$

$$\frac{9600}{95} = \frac{95x}{95}$$

$$x = 101.05\%$$

Some words have very specific meaning

is
=

of
x

Examples Answer the following questions.

What percent **of** 126 **is** 22?

$$100 \times \frac{x}{100} \times 126 = 22 \times 100$$

$$\frac{x \times 126}{126} = \frac{2200}{126}$$

$$x = 17.46\%$$

81 **is** 56% **of** what?

$$100 \times 81 = \frac{56}{100} \times x \times 100$$

$$\frac{8100}{56} = \frac{56 \times x}{56}$$

$$x = 144.64$$

27.5 **is** what percent **of** 141?

$$100 \times 27.5 = \frac{x}{100} \times 141 \times 100$$

$$\frac{2750}{141} = \frac{x \times 141}{141}$$

$$x = 19.52\%$$

Financial Literacy

Review: Percents

Interest, Investments and Loans

17% of what is 156?

$$100 \times \frac{17}{100} \times x = 156 \times 100$$

$$\frac{17x}{17} = \frac{15600}{17}$$

$$x = 917.65$$

46 is what percent of 107?

$$100 \times 46 = \frac{x}{100} \times 107 \times 100$$

$$\frac{4600}{107} = \frac{107x}{107}$$

$$x = 42.99\%$$

79.9 is 99% of what?

$$100 \times 79.9 = \frac{99}{100} \times x \times 100$$

$$\frac{7990}{99} = \frac{99x}{99}$$

$$x = 80.71$$

62% of what is 89.3?

$$100 \times \frac{62}{100} \times x = 89.3 \times 100$$

$$\frac{62x}{62} = \frac{8930}{62}$$

$$x = 144.03$$

What percent of 137.4 is 96?

$$100 \times \frac{x}{100} \times 137.4 = 96 \times 100$$

$$\frac{137.4x}{137.4} = \frac{9600}{137.4}$$

$$x = 69.87\%$$

30% of 117 is what?

$$\frac{30}{100} \times 117 = x$$

$$0.30 \times 117 = x$$

$$x = 35.1$$

11 is what percent of 97?

$$100 \times 11 = \frac{x}{100} \times 97 \times 100$$

$$\frac{1100}{97} = \frac{97x}{97}$$

$$x = 11.34\%$$

120% of 118 is what?

$$\frac{120}{100} \times 118 = x$$

$$1.20 \times 118 = x$$

$$x = 141.6$$

25 is what percent of 37?

$$100 \times 25 = \frac{x}{100} \times 37 \times 100$$

$$\frac{2500}{37} = \frac{37x}{37}$$

$$x = 67.57\%$$

What is 270% of 60?

$$x = \frac{270}{100} \times 60$$

$$x = 2.70 \times 60$$

$$x = 162$$

73% of what is 156.4?

$$100 \times \frac{73}{100} \times x = 156.4 \times 100$$

$$\frac{73x}{73} = \frac{15640}{73}$$

$$x = 214.25$$

87% of 41 is what?

$$\frac{87}{100} \times 41 = x$$

$$0.87 \times 41 = x$$

$$x = 35.67$$