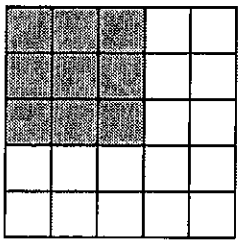
Skill Builder

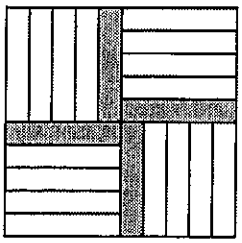
2 Converting Between Fractions, Decimals and Percents

EVALUATED

1 Show the fraction represented below. Then convert it to a decimal and a percent.



2 Show the fraction represented below. Then convert it to a decimal and a percent.



3 Convert the following fractions to decimals.

a. $\frac{17}{20}$

b. $\frac{13}{25}$

c. $\frac{7}{15}$

4 Convert the following fractions to decimals.

a. $\frac{35}{50}$

b. $\frac{14}{20}$

c. $\frac{13}{16}$

5 Convert the following fractions to percents.

a. $\frac{3}{8}$

b. $\frac{1}{2}$

c. $\frac{21}{24}$

6 Convert the following fractions to percents.

a. $\frac{11}{20}$

b. $\frac{12}{16}$

c. $\frac{9}{15}$

7 Convert the following decimals to fractions in simplest terms.

a. 0.28

b. 0.15

c. 0.48

8 Convert the following decimals to fractions in simplest terms.

a. 0.54

b. 0.64

c. 0.125

9 Convert the following percents to fractions in simplest terms.

a. 18% _____

b. 85% _____

c. 37.5% _____

10 Convert the following percents to fractions in simplest terms.

a. 12% _____

b. 95% _____

c. 6.25% _____

Skill Builder

3 Decimal Numbers Part 3 – Fractions to Decimals EVALUATED

1 Write the following fraction as a decimal number.

$$\frac{3}{5} = _____$$

2 Write the following fraction as a decimal number.

$$\frac{3}{8} = _____$$

3 Write the following fraction as a decimal number.

$$\frac{7}{4} = _____$$

4 Write the following fraction as a decimal number.

$$\frac{11}{25} = _____$$

5 Write the following fraction as a repeating decimal.

$$\frac{4}{3} = _____$$

6 Write the following fraction as a repeating decimal.

$$\frac{7}{9} = _____$$

7 Write the following mixed fraction as a decimal number.

$$3\frac{1}{2} = _____$$

8 Write the following mixed fraction as a decimal number.

$$5\frac{3}{4} = _____$$

9 Write the following decimal number as a mixed fraction.

$$3.3 = _____$$

10 Write the following decimal number as a mixed fraction.

$$7.4 = _____$$

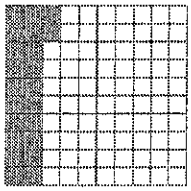
Percentage and Proportional Situations

CHAPTER 6

Skill Builder

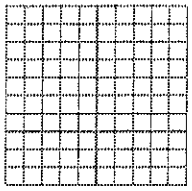
1 Percent Models EVALUATED

1 What percent is represented by this shaded grid?



_____

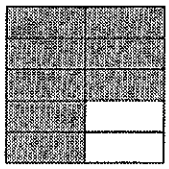
2 Represent 85% by shading this grid.



_____

3 What percent is represented by this grid?

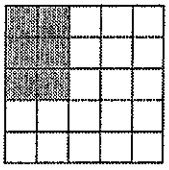
Hint: First convert this to a 10 × 10 grid.



_____

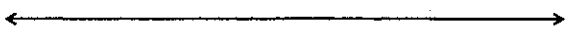
4 What percent is represented by this grid?

Hint: First convert this to a 10 × 10 grid.



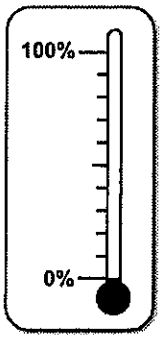
_____

5 Represent 57% on a number line.



6 Represent 81% on a number line.

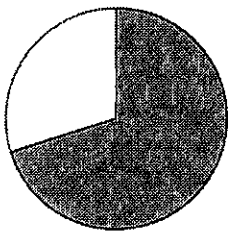
7 Represent 75% using the model below.



8 Estimate the percent of the rectangle that is shaded.

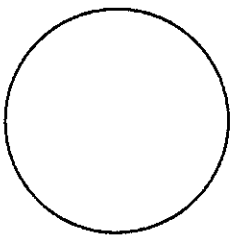
_____

9 What percent of the circle is shaded?



_____

10 Represent 55% on a percentage circle.



Skill Builder 2 Calculating Percentage EVALUATED

1 Find the percentage of each number using "easy fractions".

a. 20% of 520 _____

b. 30% of 810 _____

c. 70% of 910 _____

2 Find the percentage of each number using "easy fractions".

a. 40% of 450 _____

b. 60% of 125 _____

c. 75% of 560 _____

3 Find the percentage of each number by multiplying by a decimal.

a. 55% of 150 _____

b. 27% of 123 _____

4 Find the percentage of each number by multiplying by a decimal.

a. 35% of 530 _____

b. 26% of 322 _____

5 Find the percentage of each number by using proportions.

a. 13% of 600 _____

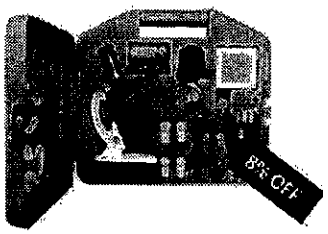
b. 60% of 210 _____

6 Find the percentage of each number by using proportions.

a. 42% of 700 _____

b. 12% of 30 _____

7 A microscope kit that normally sells for $39 is marked down 8%.



a. What is the **discount**?

_____

b. What is the **sale price**?

_____

8 A baseball glove that normally sells for $50 is marked down 15%.

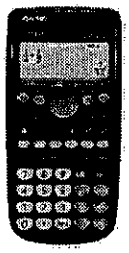
a. What is the **discount**?

_____

b. What is the **sale price**?

_____

9 An office store purchased a carton of 24 fraction calculators for $192.00. They sold each one at a markup of 50%.



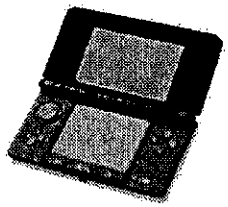
a. What is the **markup** per calculator in dollars?

_____

b. What is the **listed price** for each calculator?

_____

10 A retail store purchased handheld gaming devices for $140.00 each. They sold each one at a markup of 85%.



a. What is the **markup** per device in dollars?

_____

b. What is the **listed price** for each device?

_____

Skill Builder

3 Percent Part 1 – Simple Conversions

EVALUATED

1 Convert the following percent to a decimal number.

$7\% =$ _____

2 Convert the following percent to a decimal number.

$150\% =$ _____

3 Convert the following decimal number to a percent.

$0.03 =$ _____

4 Convert the following decimal number to a percent.

$0.7 =$ _____

5 Write the following percent as an irreducible fraction.

$24\% =$ _____

6 Write the following percent as an irreducible fraction.

$125\% =$ _____

7 Convert the following fraction into a percent.

$\frac{4}{5} =$ _____

8 Convert the following fraction into a percent.

$\frac{9}{50} =$ _____

9 Write the following list of values in increasing order.

$27\%,\ \frac{1}{5},\ 0.3$

_____

10 Write the following list of values in increasing order.

$\frac{5}{4},\ 110\%,\ 1.2$

_____

4 Percent Part 2 – Advanced Conversions

EVALUATED

Skill Builder

1 Convert the following fraction into a percent.

$$\frac{7}{8} = _____$$

My Calculations

2 Convert the following fraction into a percent.

$$\frac{19}{40} = _____$$

My Calculations

3 Convert the following percent into a reduced fraction.

$$71.5\% = _____$$

My Calculations

4 Convert the following percent into a reduced fraction.

$$21.25\% = _____$$

My Calculations

5 Convert the following fraction into a percent and round it to the nearest tenth.

$$\frac{8}{9} = _____$$

My Calculations

6 Convert the following fraction into a percent and round it to the nearest tenth.

$$\frac{7}{12} = _____$$

My Calculations

Skill Builder

7 What is 40% of 170? _____

My Calculations

8 What is 12% of 400? _____

My Calculations

9 A gumball machine has 18 red gumballs. If 30% of the gumballs in the machine are red, what is the total number of gumballs in the machine?

_____

My Calculations

10 A math student got 85% on their last math test. If all the questions are worth the same value, and the student got 17 questions right, how many questions were on the test?

_____

My Calculations