Chapter 6 - Review Problems

Fill in the empty spaces of the table with the missing percent, ratio, or decimal. (Write all decimals to the nearest hundredths place.)

Fraction	Decimal	Percents
2/5		
	6.5	
		7%
6/7		

Directions: Order the numbers from least to greatest.

1.) -0.2, 2%, -3/10

2.)   -⅔, -0.6, 6%

Directions: Find the percent of each number in numbers 3 and 4.

3.) 70% of 230

4.) 145% of 50

5.) HHMS has 350 students. 85% of the students buy lunch each day. How many students buy lunch each day?

Directions: Solve. (Round percents to nearest whole percent, and numbers to the nearest hundredth.)

6.) What percent of 60 is 12?

7.) 70 is 50% of what number?

8.) An mp3 player at Walmart is 25% off of the original price. What is the cost of the mp3 player if the original cost is $50?

Directions: Find the percent increase or decrease.

9.) 12 increased to 50

10.) 75 decreased to 35

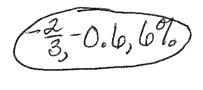**Directions: Find each missing value in 11 and 12.**

11.) I = _____ , P = $1,200, r = 3%, t = 4 years

12.) I = $250, P = $1,000, r = _____ , t = 2 years

Key

Fill in the empty spaces of the table with the missing percent, ratio, or decimal. (Write all decimals to the nearest hundredths place.)

Fraction	Decimal	Percents
2/5	0.4	0.4 = 40%
$6.5 = 6\frac{5}{10} = 6\frac{1}{2}$	6.5	6.5 = 650%
$\frac{7}{100}$	7% = .07	7%
6/7	0.85(7) = 0.86	86%

Directions: Order the numbers from least to greatest.

1.) -0.2, 2%, -3/10

-20%, 2%, -30%

-30%, -.2, 2%

2.) -⅔, -0.6, 6%

-.6666

= -66.6%, -60%, 6%

-⅔, -0.6, 6%

Directions: Find the percent of each number in numbers 3 and 4.

3.) 70% of 230

.70 · 230

161

4.) 145% of 50

1.45 · 50

72.5

5.) HHMS has 350 students. 85% of the students buy lunch each day. How many students buy lunch each day?

350 · .85

= 297.5

298 students

Directions: Solve. (Round percents to nearest whole percent, and numbers to the nearest hundredth.)

6.) What percent of 60 is 12?

p · 60 = 12

÷ 60 | ÷ 60

p = 0.2   20%

7.) 70 is 50% of what number?

70 = .50 · n

÷ .50 | ÷ .50

140 = n

8.) An mp3 player at Walmart is 25% off of the original price. What is the cost of the mp3 player if the original cost is $50?

1st step – multiply

2nd step – + or –

.25 · 50 = 12.5

50 – 12.5 = $37.50

Directions: Find the percent increase or decrease. Use formula $\dfrac{\text{big} - \text{little}}{\text{original}}$

9.) 12 increased to 50

$$\frac{50-12}{12} = \frac{38}{12} = 3.1616do$$

316.6

317%

10.) 75 decreased to 35

$$\frac{75-35}{75} = \frac{40}{75} = 0.5333$$

$$= 53.3\%$$

$$= 53\%$$

Directions: Find each missing value in 11 and 12.

11.) I = _____, P = $1,200, r = 3%, t = 4 years

.03

Use formula

$$I = P \cdot r \cdot t$$
$$I = 1,200 \cdot .03 \cdot 4$$
$$I = 144 \qquad \$144$$

Don't forget the dollar sign!

12.) I = $250, P = $1,000, r = _____, t = 2 years

$$I = P \cdot r \cdot t$$
$$250 = 1,000 \cdot r \cdot 2$$
$$250 = 2,000 \cdot r$$
$$\div 2,000 \qquad \div 2,000$$
$$0.125 = r$$

12.5%

13%