

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Chapter 2 Test Study Guide

### ◆ *Converting Fractions and Decimals (2-1)*

Convert the decimals to fractions or mixed numbers in simplest form.

1) 12.2

2) 0.85

3) 0.03

4) 1.064

Convert the fractions and mixed numbers into decimals.

5)  $\frac{55}{400}$

6)  $3\frac{11}{20}$

7)  $\frac{105}{500}$

8)  $9\frac{7}{8}$

### ◆ *Percents, Fractions, and Decimals (2-2, 2-3, 2-4, 2-5)*

Write the following numbers as percents.

9) 0.203

10) 0.7

11)  $\frac{11}{25}$

12)  $\frac{21}{40}$

13) Complete the table. Write fractions and mixed numbers in simplest form.

<b>Percent</b>	<b>Fraction</b>	<b>Decimal</b>
52%		
		0.125
	$1\frac{9}{25}$	
		0.008
60%		

14) The table shows the wins of five local baseball teams. They all played the same number of games. List the teams in order of their winning statistics from least to greatest.

<b>Team</b>	<b>Wins</b>
Bears	86%
Tigers	$\frac{7}{8}$
Mustangs	0.84
Lions	$\frac{5}{6}$
Warriors	0.9

◆ *Solve Percent Problems (2-7 & 2-8)*

15) What is 99% of 200?

16) 12% of what number is 9?

17) What is 0.6% of 100?

18) 16 is 40% of what number?

19) 20% of what number is 75?

20) What is 145% of 160?

21) Nine students in Maddie's classroom are wearing red. There are 30 students in her class. Maddie says that 30% of her class is wearing red. Is Maddie correct? Explain your reasoning.

22) Jim has answered seven E-mails. This is 35% of the E-mails he must answer. How many E-mails does he need to answer?

23) Evan has \$8. He wants to buy a book for \$7.50. The sales tax is 6%. Does he have enough money? Explain your reasoning.

24) The original price of a pair of headphones is \$68. If they are on sale this week for 15% off, what is the sale price of the headphones?

25) In a load of laundry, 60% of the socks are white. If there are 25 socks in the load, how many socks are **not** white?