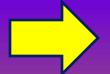
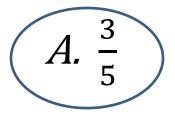
### As you scroll through the slides

- Have the Unit 8 Study Guide in front of you printed or opened on your computer.
- Use the examples to help you on your test.
- Work out the problems on paper then put in your answer
- Use a calculator
- Mrs. Baker cannot help you answer the questions



### 1. Which ratio is equivalent to $\frac{15}{25}$ ?



$$B_{*} = \frac{1}{5}$$

$$C. \frac{3}{25}$$

Cross multiply to see which one gives you the same answer.

$$\begin{array}{c}
 3 &= 15 \\
 5 &= 25 \\
 5*15 &= 75 \\
 \end{array}$$

$$\begin{array}{c}
 3*25 &= 75 \\
 \end{array}$$

#### 2. Which is a unit rate?

Unit rates have a <u>denominator of 1</u>

a. 
$$\frac{\$15}{2 Hours}$$

b. 
$$\frac{\$7.50}{1Hour}$$

C. 
$$\frac{100 \text{ miles}}{5 \text{ gallons}}$$

$$d. \frac{1 year}{365\frac{1}{4} days}$$

3. A bag contains 8 blue marbles and 20 red marbles. What is the ratio, written in lowest terms, of blue marbles to the total number of marbles in the bag? (Use the slash mark to write your ratio.)

Ratio in words: blue: total marbles

Ratio in numbers: 8:28

Ratio as fraction: 8/28

Reduce (divide out a 4): 2/7

#### 4. What is 93.2% written as a decimal?

 Move decimal point <u>two places to the left</u> and remove the % sign. D ← P

$$93.2\% = 0.932$$

## 5. Convert $\frac{12}{25}$ to a decimal

Divide the numerator by the denominator.

A. 12.25

B. 0.48

C. 2.08

 $25\sqrt{12.00}$ 

## 6. What is 20% written as a fraction in *lowest terms*?

- Write the % as a fraction over 100
- Reduce

$$20\% = \frac{20}{100}$$

$$\frac{20 \div 20}{100 \div 20} = \frac{1}{5}$$

- 7. Tonya collected 150 different types of coins from different countries. Twenty-five of those coins were from Asia. What percent of the coins were from Asia? Round to the nearest percent, if necessary.
  - 1. Write the ratio as a fraction
  - Turn the fraction into a decimal
  - 3. Turn the decimal into a percent and round to the nearest whole number

### 8. Solve the proportion.

$$\frac{5}{x}$$
  $\times$   $\frac{6}{15}$ 

D. 60

$$6x = 5*15$$

$$6x = 75$$

$$x = 75/6$$

$$x = 12.5$$

- 1. Cross multiply
- 2. Divide

## 9. Six tickets to the game cost \$72 How much do 2 tickets cost?

Set up a proportion comparing tickets to cost:

$$\frac{tickets}{cost} = \frac{tickets}{cost}$$

- Cross multiply and divide to solve
- A. \$12
- B. \$36
- C. \$24
  - D. \$216

$$\frac{6}{72} = \frac{2}{c}$$

$$6c = 2*72$$

$$6c = 144$$

$$c = 144 \div 6$$

$$c = 24$$

Or: Find the cost for one ticket and then multiply by 2!

# 10. What is 2.30 written as a fraction or mixed number?

a. 
$$2\frac{3}{10}$$

$$b. \frac{2}{30}$$

c. 
$$2\frac{1}{30}$$

$$d. \frac{3}{10}$$

Convert the decimal into a fraction in simplest form.

2.30 = "two and thirty hundredths"

$$2\frac{30}{100} = 2\frac{3}{10}$$

# 11. What is 0.084 written as a percent?

Move the decimal two places to the right

$$D \rightarrow P$$

Add the % sign

$$0.084 = 8.4\%$$

### 12. What is $\frac{13}{50}$ written as a percent?

- Change the fraction to a decimal (top dog in the house).
- Change the decimal to a percent (move decimal right 2 places).

$$\frac{13}{50}$$
 = 0.26 = 26%

#### Now what?

- Check your answers
- Submit your test
- K-mail Mrs. Baker know you are finished!