

Name:

Date:

Period:

## Unit Rate Word Problems

### SHOW ALL YOUR WORK AND LABEL!!!!

- 1) You can buy 3 apples at Quick Market for \$1.17. You can buy 5 of the same apples at Stop and Save for \$2.40.
  - a. Which store is the better buy?
  
  
  
  
  
  
  
  
  
  
  - b. How much will you save per apple if you purchase it from the cheaper store?
  
  
  
  
  
  
  
  
  
  
- 2) Gas mileage is the number of miles you can drive on one gallon of gas. A test of a new car results in 450 miles on 10 gallons of gas.
  - a. What is the car's gas mileage?
  
  
  
  
  
  
  
  
  
  
  - b. How far could you drive with 60 gallons of gas?
  
  
  
  
  
  
  
  
  
  
- 3) The bakers Healthy Bakery can make 160 bagels in 5 hours.
  - a. How many bagels can they make in 1 hour?
  
  
  
  
  
  
  
  
  
  
  - b. How many bagels can they make in 12 hours?

4) You can buy 5 cans of green beans at the Market Basket for \$2.40. You can buy 10 of the same green beans at Costco for \$4.40.

a. Which is the better buy?

b. How much do you save per can buy making your purchase at the cheaper store?

5) A jet flies 510 miles in 2 hours.

a. What is the rate of speed of the jet (miles per hour)?

b. At this rate, how far can the jet fly in 15 hours?

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### Unit Rate Word Problems

**SHOW ALL YOUR WORK AND LABEL!!!!**

- 1) You can buy 3 apples at Quick Market for \$1.17. You can buy 5 of the same apples at Stop and Save for \$2.40.

a. Which store is the better buy?

COMPARE  $\frac{\$}{\text{QUANTITY}}$  TO GET PRICE PER APPLE

$$\begin{array}{r} \$1.17 \\ \underline{3} \\ \$0.39 \\ \text{APPLE} \end{array} \leftarrow \begin{array}{l} \text{QM} \\ \text{QUICK MARKET} \end{array} \quad \begin{array}{r} \$2.40 \\ \underline{5} \\ \$0.48 \\ \text{APPLE} \end{array} \rightarrow \begin{array}{l} \text{SS} \\ \text{STOP AND SAVE} \end{array}$$

QUICK MARKET IS BETTER BUY @ \$0.39 PER APPLE

b. How much will you save per apple if you purchase it from the cheaper store?

$$\begin{array}{r} .48 \\ - .39 \\ \hline \end{array}$$

SAVE \$0.09 PER APPLE

- 2) Gas mileage is the number of miles you can drive on one gallon of gas. A test of a new car results in 450 miles on 10 gallons of gas.

a. What is the car's gas mileage?

MILES PER GALLON

$$\frac{450 \text{ mi}}{10 \text{ GAL}} = 45 \text{ mi/GAL}$$

b. How far could you drive with 60 gallons of gas?

$$\frac{45 \text{ mi}}{\text{GAL}} \times 60 \text{ GAL} =$$

2700 miles

- 3) The bakers Healthy Bakery can make 160 bagels in 5 hours.

a. How many bagels can they make in 1 hour? BAGELS PER HOUR

$$\frac{160 \text{ BAGELS}}{5 \text{ HOURS}}$$

32 BAGELS/HOUR

b. How many bagels can they make in 12 hours?

$$\frac{32 \text{ BAGELS}}{\text{HOUR}} \times 12 \text{ HOURS} =$$

384 BAGELS

4) You can buy 5 cans of green beans at the Market Basket for \$2.40. You can buy 10 of the same green beans at Costco for \$4.40.

a. Which is the better buy?

PRICE PER CAN  $\frac{\$2.40}{5} = \$0.48/\text{CAN}$   $\frac{\$4.40}{10} = \$0.44/\text{CAN}$   
M.B.

COSTCO @ \$0.44 PER CAN

b. How much do you save per can buy making your purchase at the cheaper store?

$\$0.48 - \$0.44 = \$0.04 \text{ SAVINGS}$

5) A jet flies 510 miles in 2 hours.

a. What is the rate of speed of the jet (miles per hour)?

$\frac{510 \text{ mi}}{2 \text{ hr}} = 255 \text{ mi/hr}$

b. At this rate, how far can the jet fly in 15 hours?

$\frac{255 \text{ mi}}{\text{hr}} \times 15 \text{ hr} = 3825 \text{ mi}$