

Name: Key
Date: _____

Mr. Johnson
Math 8

Lesson 5.10 – Comparing Rates

Notes:

When you are presented two different rates we use unit rates to make comparisons.

For instance, if we see a box 450 g box of Frosted Flakes for \$3.79 and 625 g box for \$5.39 it is virtually impossible to pick the better buy without doing a calculation.

(Note: It isn't always cheaper to buy the bigger box too, check for yourself the next time you go a grocery store!!!)

So instead of just guessing or going with the bigger box we use unit rates to make comparisons.

Examples:



1. Which is the better buy?

a) 5 oranges for \$1.65 or 8 oranges for \$2.77

$$\frac{\$1.65}{5} = \frac{x}{1} \quad x = \$0.33$$

$$\frac{\$2.77}{8} = \frac{x}{1} \quad x = \$0.35$$

b) 2 L of lemonade for \$2.56 or 1 L for \$1.32

$$\frac{\$2.56}{2} = \frac{\$1.28}{1}$$

c) 3 kg of apples for \$5.70 or 2 kg for \$3.90

$$\frac{\$5.70}{3} = \frac{x}{1} \quad x = \$1.90$$

$$\frac{\$3.90}{2} = \frac{\$1.95}{1}$$

2. Ned types 360 words in 6 min. Nate types 220 words in 4 min. Who would type more words in 10 min? What assumptions do you make?

Ned

$$\frac{360 \text{ w}}{6 \text{ min}} = \frac{60}{1 \text{ min}}$$

Nate

$$\frac{220 \text{ w}}{4 \text{ min}} = \frac{55 \text{ w}}{1 \text{ min}}$$

Ned would type more
Assumption, both maintain speed.

Assignment:

Pg. 303-306
#'s 5-15, 18, 21

