Smart Shoppers

Part 1 – Comparing Ratios

In this problem set, you will compare ratios with different denominators. Use the <, >, and = signs under the [TEXT] menu ([2nd] [MATH]). Identify which is the better deal.
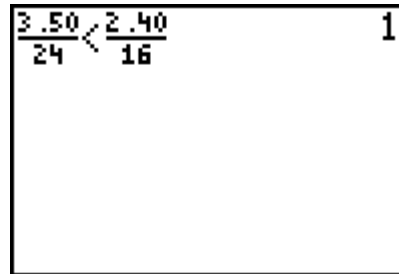
1. Boxes of Cereal:

Box 1: $3.50 for 24 ounces

Box 2: $2.40 for 16 ounces

Answer: _____

Enter each ratio as a fraction and insert one of the comparisons between. In this example, press [3] [.] [5] [b/c] [2] [4] [▶] then [2nd] [MATH] and choose the <, >, or =, and then [2] [.] [4] [0] [b/c] [1] [6]. Press [ENTER].

$$\frac{3.50}{24} < \frac{2.40}{16} \qquad 1$$

2. Containers of Juice:

Jug 1: $2.99 for 18 ounces

Jug 2: $4.29 for 64 ounces

Answer: _____

3. Tortillas:

Package 1: $1.99 for 15 tortillas

Package 2: $2.49 for 20 tortillas

Answer: _____

Part 2 – Writing Equivalent Ratios

In Problems 4–6, you will rewrite equivalent ratios to have comparisons with the same denominators. Write the equivalent ratio for each and then compare. Identify which is the better deal.
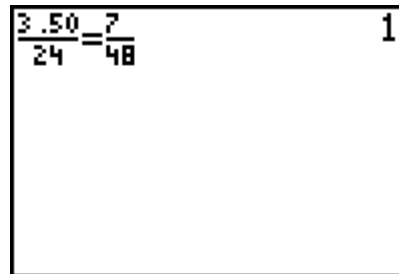
4. Boxes of Cereal:

Box 1: $3.50 for 24 ounces = _____

Box 2: $2.40 for 16 ounces = _____

Answer: _____

Find an equivalent ratio using the LCM for each of the ratios. This shows confirmation that you have found an equivalent ratio.

$$\frac{3.50}{24} = \frac{7}{48} \qquad 1$$

5. Ears of corn:

Option 1: $1.50 for 3 ears = _____

Option 2: $2.00 for 8 ears = _____

Answer: _____

6. Chips:

Bag 1: $2.90 for 18 ounces = _____

Bag 2: $4.00 for 36 ounces = _____

Answer: _____

7. When would you likely use equivalent ratios to find common denominators?

_____

_____

Problem 3 – Writing Unit Rates

Find the unit rate for each item using division. Then identify which option is a better deal.

8. Cheese:

Bag 1: $2.89 for 15 ounces = _____

Bag 2: $3.29 for 19 ounces = _____

Answer: _____

9. Canned Tomatoes:

Can 1: $0.89 for 13 ounces = _____

Can 2: $1.99 for 29 ounces = _____

Answer: _____

10. Movie Passes:

Sale 1: $28 for 3 tickets = _____

Sale 2: $40 for 5 tickets = _____

Answer: _____

11. Socks:

Bag 1: $8.99 5 pair = _____

Bag 2: $17.29 9 pair = _____

Answer: _____

12. When would you prefer to use unit rates instead of finding like denominators to compare prices?

_____

_____