Mathematics 8 Section 5.10 - Comparing Rates

Being able to compare ratios plays an important role in your everyday life.

Many grocery items come in different sized packages. Being able to figure out which is the best buy can end up saving you a bunch of money.

Consider the following situation. Which is the best deal?



Option A \$ 0.69/can



Option B 710 mL \$1.15/bottle



Option C 21_=2000mL 82.89/hatte

* You need to break the cost down to a per unit rate. You can choose anything, but Option A: 1, 10, 100, 1000 is easier. We will use 100's.

Has a volume of 355 ml for \$0.69

$$\frac{355}{100} = 3.55$$
, so cost of a 100 mL $\frac{80.69}{3.55}$

Option B:

has a volume 710ml for \$1.15

$$\frac{710}{100} = 7.1$$
, so cost of 100ml $\frac{$1.15}{7.1}$

Option C:

has a volume of 2000ml for \$2.89 \$2189 = \$0.14 $\frac{2000}{100}$ = 20, so cust of $\frac{218}{21}$ 100 2

Option C is the best byy. Page 1 of 2 Sometimes the calculations can be even easier than the one above.

In the situation above, each item contained a different amount of product.

If the amount of product is always the same, and your only option is the quantity to purchase, you proceed as below.



Package A 2rolls



Package B Grolls \$3,99



Package C 12 rolls \$6.99

Since 12 is a multiple of both 2 db we can use 12 as our unit.

Package B:

Package C:

Package A is the best buy!