Name:	key	N.
Date: _		

1.2 Unit Price

Investigate:

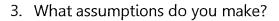
Who has the fastest heart rate? Find your pulse and count the number of beats in 30 seconds as a class. Write down this number and answer the questions below.

Adults(+18) = 10-100 bpm Children (6-18=70-100 bpm

32 beats/30 seconds

- 1. Calculate your beats per minute. Who has the fastest heart rate in your group and how do you know?

 32 beats *2 = 64 beats/min (2) 32 beats × 60 sec | 60
- 2. Calculate how many times your heart would beat in an hour? A day?





Connect:

When two things with different units are <u>campared</u> we have a <u>rate</u>

Here are some rate examples:

-5 pizzas for every 20 students

- -Oranges are on sale \$1.69 for 12
- -Timmy earns \$9.00per hour at McDonalds
- -There are 12 cans of Coke in each box

The last two examples are <u>unit rates</u>. Unit rates compare a quantity to

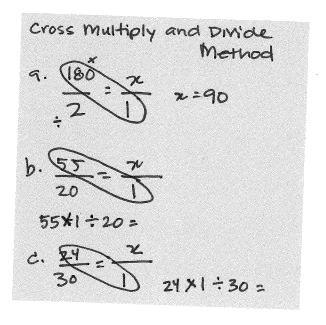
one unit

Examples:

- 1. Express the following as a unit rate:
 - a. The car travelled 180km in 2 hours.

b. A printer can print 55 copies in 20 seconds.

c. Naomi reads 24 pages in 30 minutes.



- 2. A 300 g package of pepperoni costs \$4.29.
 - a. What is the cost per 100g?

$$(4.29)(2)$$
 $3009 = 1009 (2)(4.29)$ $300x = 420$ 300 300 300

$$1.43/9^{10} \times 10 = 144.30$$
 © $\frac{1}{1009} \times \frac{10009}{1009} = 144.3$ © $\frac{1}{1009} \times \frac{10009}{1009} = 144.3$ © $\frac{1}{1009} \times \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009} \times \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009} = \frac{1}{1009}$

c. How much pepperoni could you by with \$20?

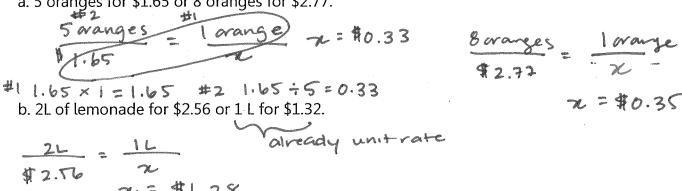
$$\frac{(1\%)(3)}{10\%} = \frac{$1.43}{$1.43} = \frac{$20(x)(10)}{$1.43} = \frac{1.43}{1.43} = \frac{2000}{1.43}$$
nnect: $x = 1398.69$

Connect:

When you are presented with two different rates 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.



Try It!

Which is the better buy: 6 donuts from Dolicious for \$9.36, or one dozen donuts from Tim Hortons for \$15.63? Why might you purchase the more expensive option? Please show your teacher when be like taste better completed.