

Name:	key

1	2	rn	in	σ	G	n	a	s:
Lŧ	=a		111	5	U	v	a	13.

- I will be able to understand how to write a rate 1.
- 2. I will understand how to write a unit rate
- 3. I will understand how to use rates and unit rates in word problems

R.I	-	-	-	
1.71	01	.e	2	

		17
Termin	ology to	Know:

1. Rate: <u>Comparison</u> of things with two different units
a. Example: 5 (aps/120 laps

2. Unit Rate: Comparison of things with different units where a. Example: the seconds rate is reduced so that it is lunit ex \$8/1-

Learning Goal #1: Rates

- 1. Express each sentence as a rate:
 - a. Steve likes to walk slowly. He usually walks 8 kilometres in 90 minutes.

Skm/90min

- b. Emily likes to swim fast. She can swim 7 laps of the pool in 1.5 minutes 7/05/1,5 min
- c. Gage has a very fast pitch. He can throw the ball 90 m in 4 seconds.

90m/45ec

Learning Goal #2: Unit Rates

1. Mary cycled 35 kilometres in 110 minutes. What was his speed in km/hr? Show your work.

35 km/110min = 35 km/18 hr = 19.4 km/1 hr

2. Mrs. Arcuri's dog ran 10 blocks in 3 minutes. Each block is 50 meters. What is his speed in meters/second? Show your work.

3min x50 = 500 moler + 150 = 3.3

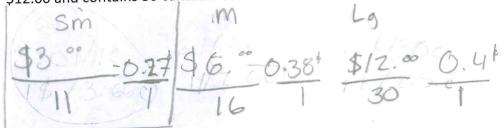
3. A container of yoghurt costs \$5.50 for 400 grams. How much does 100 grams cost? Show your work.

5.50\$ /400g = \$1.38 /100q

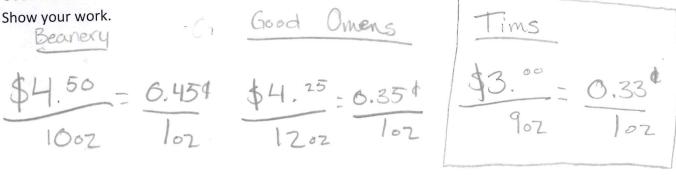
4. A package of movies costs \$110.00 and in the package there are 7 movies. What is the cost per 110\$/7 mov = 15.71\$/1 mov. movie? Show your work.

rning Goal #3: Comparing Rates

1. There are three different sizes to Summerland Sweets fruit candies. The smallest box costs \$3.00 and contains 11 candies. The medium size box costs \$6.00 and contains 16 candies. The largest box costs \$12.00 and contains 30 candies. Which is the best deal? Show your work.



2. Mrs. Arcuri wants to find the best deal for her morning latte. The Beanery costs \$4.50 for 10 oz. The Good Omen café costs \$4.25 for 12 oz. And Tim Horton's costs \$3.00 for 9 oz. Which is the best deal?



3. A 3 kg bag of grass seed will cover an area of 1000 m². How much seed is needed to cover a square part with side length of 50m?

$$\frac{3 \text{ kg} \times 2.5}{1000 \text{ m}^2} \frac{7 \text{ kg}}{2500 \text{ m}^2}$$
 50 m
 $\frac{1000 \text{ m}^2}{2500 \text{ m}^2} = 2500 \text{ m}^2$

4. Mrs. Arcuri drove to Merritt for a hockey tournament. She travelled 160 km in 2 hours. Mr. Arcuri then drove from Merritt to Kamloops. It was a 110 km trip and it took 1.5 hours. Who is the faster driver? Show your work.

