

Name: _____

Date: _____

Section 2.2 Extra Practice

1. Convert each of the following rates into a unit rate.

Example: 110 km in 15 h $\rightarrow \frac{7.4km}{1h}$

a) 1200 words in 45 minutes

b) 25 cars sold in 5 days

c) 25 L of gas used to travel 390 km

d) 80 meters per 4 min

2. Determine the unit rate in each situation.

Example: There were 180 people on 3 buses. $\frac{180}{3} = 60$ people per bus

a) 15 hours of TV in 3 days

b) 282 tickets sold in 6 nights

For #3 and #4, do the following for each product:

3. a) and b) Calculate the unit price of each brand. Show your work.

c) Identify the best buy.

Item	a) Unit Price Brand A	b) Unit Price Brand B	c) Best Buy
Example: Salsa (425 mL)	2 for \$6.49 = \$3.25	3 for \$8.99 = \$3	Brand B
Plastic wrap (30 m)	8 rolls for \$20	\$29.40 for 12 rolls	

Item	a) Unit Price Brand A	b) Unit Price Brand B	c) Best Buy
Fruit juice (355 mL)	6 pack for \$4.68	4 pack for \$3	

5. Calculate the fuel efficiency of each car. Show your work.

- For Step 1, calculate the litres of fuel used per kilometre. Give your answer to the nearest ten-thousandth.
- For Step 2, multiply the unit rate by 100. Round to the nearest hundredth.

Car	Distance (km)	Fuel Used (L)	Step 1: Unit Rate (L/km)	Step 2: Fuel Efficiency (L/100 km)
Example:	248	20	$\frac{20 \text{ L}}{248 \text{ km}} = 0.0806 \text{ L/km}$	$0.0806 \times 100 = 8.06 \text{ L/100 km}$
a) Car A	639	45		
b) Car B	688	80		