

## Curriculum Outcome

**General Outcome:** Develop number sense and critical thinking skills.

**N1** Solve problems that involve unit pricing and currency exchange, using proportional reasoning.

**N2** Demonstrate an understanding of income, including: wages, salary, contracts, commission, piecework, and calculating gross pay and net pay.

**N3** Demonstrate an understanding of compound interest.

**N4** Demonstrate an understanding of financial institution services used to access and manage finances.

**N5** Demonstrate an understanding of credit options, including: credit cards, and loans.

**Student Friendly:**

# Warm up!!!<sup>1.</sup>



Many big screen TV's have an aspect ratio of 16:9. This means that for every 16 inches of width, the TV will be 9 inches high. Calculate the height of a TV that is 27 inches wide.

$$W : H$$

$$16 : 9$$

$$27 : x$$

$$\left( \begin{array}{l} 16 : 9 \\ 27 : x \end{array} \right) \times \frac{27}{16}$$

$$\times \frac{27}{16}$$

$$x = 15.1875$$

$$\frac{W}{H} = \frac{16}{9} = \frac{27}{x}$$

$$16x = 9(27)$$

$$x = \frac{9(27)}{16}$$

$$x = 15.1875$$



1.

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$\frac{\text{width}}{\text{height}}$

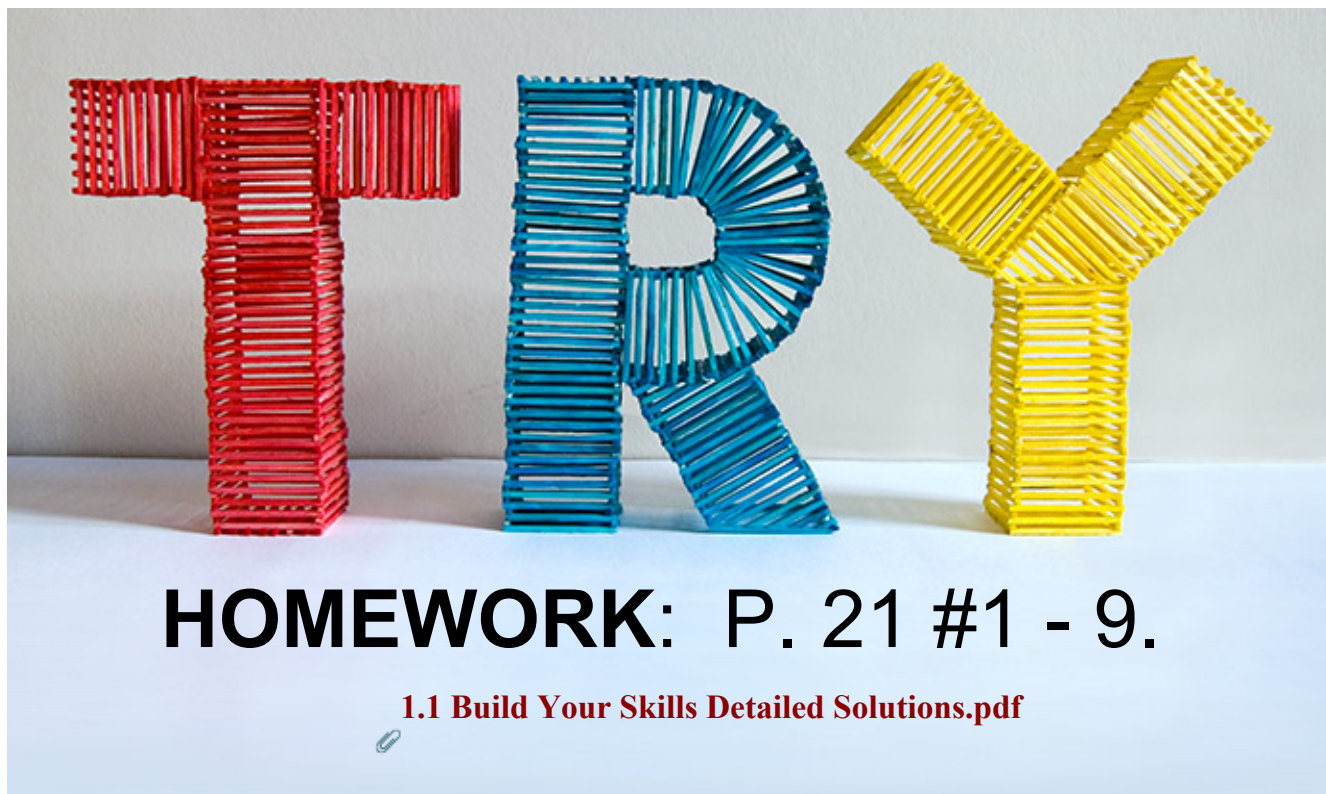
$x = \text{height}$

$$\frac{16}{9} = \frac{27}{x}$$

$$16x = 243$$

$$x = 15.1875$$

The height of the TV would be 15.2 inches.



$$1) 4:1 \quad \frac{4}{1} \quad 4 \text{ to } 1$$

$$2) 36 \text{ min}$$

$$3) \text{ i) } 75 \text{ min} \quad \text{ii) } 7.5 \text{ min}$$

$$4) \text{ i) } 13 \quad \text{ii) } 13:36$$

$$5) 121 \bullet$$

$$6) \$637.50 \text{ for } 50 \text{ dvd}$$

$$900 \text{ dvds for } \$11\,475.00$$

$$7) \frac{25 \text{ kg}}{\$75} \quad \text{and} \quad \frac{20 \text{ kg}}{\$60}$$

$$8) \quad \text{red: } 6.86\text{L} \quad \text{oak: } 5.14\text{L}$$

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$$\begin{array}{r} A : 4 : M \\ 4 : 3 : 2 \\ \left. \begin{array}{l} \downarrow \times 12 \\ \downarrow \times 12 \\ \downarrow \times 12 \end{array} \right\} \\ 48 : 36 : 24 \end{array}$$







# Unit Price



# Unit Price

The cost of one unit; a rate expressed as a fraction in which the denominator is 1.

\*\*\* allows you to compare prices and determine the 'best buy'

EX: Five MVHS T-shirts cost \$40. The unit price is :

$$\frac{\$40.00}{5} = \frac{\$8.00}{1}$$



# Unit Rate

The rate or cost for one item or unit.

EX: Lay's chips can produce 25 000 bags of chips in a regular 8 hour shift. The unit rate is:

$$\frac{25\,000}{8} = 3125 \text{ bags/hour}$$

## Example #1:

Shoppers has a sale on Sunday where you can buy six 710 mL of pop for \$1.99. Calculate the unit price of 1 pop.



$$\frac{\$1.99}{6} = \$0.33\bar{16}$$

## Example 2:

Shortcake picks fresh strawberries at a U-pick farm in Derby. If she fills a pint basket (0.5506 litres), it cost her \$1.50. If she fills a 4-litre ice cream pail, it will cost \$10.00.

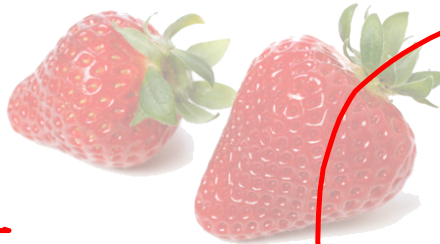
Which size of container will give her a better buy?



1)

$$\begin{array}{r} \$1.50 \\ \hline 0.5506 \text{ L} \end{array}$$

$$= \frac{\$2.72}{1 \text{ L}}$$




$$\begin{array}{r} 2) \$10 \\ \hline 4 \text{ L} \end{array}$$

$$\$2.50/1 \text{ L}$$

## COMPARISON SHOPPING...

- let's go online and check out their site / sales flyer!!!

Super Valu VS Sobeys VS Costco

 <http://calgary.ctvnews.ca/ctv-grocery-price-comparison-for-november-1.1550350>



**HAMPTON FARMS**

**Hot Nuts**  
**Arachides Épicées**  
SPICY PEANUTS  
ARACHIDES ÉPICÉES  
Peanut Net Wt. 283g (10 oz)

**HICKORY SMOKED**  
SMOKED PEANUTS  
HICKORY SMOKED  
PEANUTS IN THE SHELL  
NET WT. 283g (10 oz)

**2/\$3** Hampton Farms  
peanuts in the shell  
hot nut or hickory smoked,  
product of U.S.A., 283 g  
or \$1.50 ea

 <p>200 g PRODUCT OF CANADA PRODUCT DU CANADA</p>	 <p>200 g PRODUCT OF CANADA PRODUCT DU CANADA</p>	 <p>4 ct PRODUCT OF CANADA PRODUCT DU CANADA</p>
<b>4.99</b>	<b>4.99</b>	<b>4.49</b>
PC® Baby King oyster mushrooms product of Canada 200 g	PC® King Oyster sliced mushrooms product of Canada 200 g	PC® portobello mushroom caps product of Canada pkg. of 4

**PRODUCE**



plus **300 pts**

<p><b>4.99</b></p> <p>PC® Baby King oyster mushrooms product of Canada 200 g</p>	<p><b>4.99</b></p> <p>PC® King Oyster sliced mushrooms product of Canada 200 g</p>	<p><b>4.49</b></p> <p>PC® portobello mushroom caps product of Canada pkg. of 4</p>
<p><b>PRODUCE</b></p> 		



<p><b>179</b> lb 3.95/kg</p> <p>Bartlett or Bosc pears product of U.S.A., extra fancy grade</p>	<p>large vegetable 1.75 kg or fruit platter with dip 1.85 kg - prepared fresh in-store daily may not be available at all locations</p> <p><b>1199-1499</b> each</p>	<p><b>169</b> lb 3.73/kg</p> <p>sweet potatoes product of U.S.A., no. 1 grade</p>	<p><b>59¢</b> lb 1.30/kg</p> <p>green cabbage product of Atlantic Canada, Canada no. 1 grade</p>
	<p><b>plus 350 .pts</b></p> <p>greenhouses TOMATOES TOMATOES</p> 	<p><b>plus 200 .pts</b></p> <p>COCKTAIL CHERRY DENISES GRAPE RAISINS</p> 	
<p><b>2/\$5</b> or \$2.50 ea</p> <p>large broccoli product of U.S.A., bunch</p>	<p><b>349</b></p> <p>tomatoes product of Canada or Mexico, no. 1 grade, pkg. of 4</p>	<p><b>2/\$6</b> or \$3 ea</p> <p>PC® Grape, Cherry or Cocktail tomatoes product of Mexico or Canada, no. 1 grade 255-340 g</p>	<p><b>499</b></p> <p>Farmer's Market™ English cucumbers product of Mexico, no. 1 grade, pkg. of 3</p>

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**plus 200 pts**

**5/\$4** Cesar dog food selected varieties 100 g or 80c ea.

**3/\$5** Whiskas Temptations cat treats selected varieties 60-85 g or \$1.67 ea.

**Striploin Grilling Steak**  
super saver size  
cut from canada AA  
15.41/kg **6<sup>99</sup>** /lb

**Broccoli**  
product of usa, wrapped  
size 18's **SAVE UP TO 99¢ EA**  
**2/3<sup>00</sup>**

**Compliments Baby-Cut Carrots**  
product of usa or mexico, size 30's or  
**SAVE UP TO 1<sup>59</sup>**  
**240** each

**Big 8 Spring Water**  
24 x 500 ml **240** each

**Equates to 10¢ /bottle**

**Old Dutch RESTAURANTE ORIGINAL TRIANGLES**

**Old Dutch Chip-L Chips Croust**

**Sensations by Compliments Shredded Cheese**  
or compliments balance 340 g **SAVE UP TO 2<sup>00</sup>**  
**4<sup>99</sup>** each

**Old Dutch RESTAURANTE SALSA**

**Ready to Eat Avocados**  
product of mexico **EVERY DAY. 2/3<sup>00</sup>**

**Old Dutch Restaurante Tortilla Chips**  
230 - 320 g, salsa, queso dip 400 - 430 ml, ato or rlp-l chips 270 g **SAVE UP TO 79¢ EA**  
**2/6<sup>00</sup>**

**Don't Forget Your Drinks!**

**Pepsi**  
selected varieties 6 x 710 ml **SAVE UP TO 2<sup>00</sup> EA**  
**3/9<sup>99</sup>**



## **HOMEWORK...**

P. 26: Questions #1-7

[1.2 Build Your Skills Detailed Solutions.pdf](#)

## Attachments

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1.2 Build Your Skills Detailed Solutions.pdf

1.3 Build Your Skills Detailed Solutions.pdf

1.1 Build Your Skills Detailed Solutions.pdf