

## CHECK HOMEWORK: p. 32 #1-8

1.3\_build\_your\_skills\_detailed\_solutions.pdf



Click here for detailed answers

**WARM-UP...** Give them 3 - 4 minutes and check solution

*Terry's background as a Red Seal chef helps him provide his customers with appealing, healthy food.*

**MATH ON THE JOB**

Terry Robichaud is the department manager of the deli at Pete's Frootique grocery store in Halifax, Nova Scotia. Terry is Acadian. He grew up in Halifax, where he attended St. Patrick's High School.

"Some of my duties and responsibilities are to lead and motivate staff and provide vision and planning for business growth," he says. Terry also controls departmental finances such as wages and sales targets. "I use math to calculate prices for retail sales. From this I ensure our company achieves the appropriate profit margin on each item sold," says Terry.

Terry is considering buying a new type of samosa to sell in the deli. He will buy them frozen from a wholesaler, to bake and sell in the deli. One wholesaler sells a box of 50 samosas for \$28.00. Another

wholesaler sells a box of 75 samosas for \$41.25. What is the unit price at each wholesaler? What is the unit price difference between the two companies? What factors apart from price might Terry want to consider?

**SOLUTION**

Calculate the unit price by dividing the total price from each wholesaler by the number of samosas.

$$\text{Wholesaler A: } \$28.00/50 = \$0.56/\text{samosa}$$

$$\text{Wholesaler B: } \$41.25/75 = \$0.55/\text{samosa}$$

Wholesaler B's unit price is \$0.01/samosa less than Wholesaler A's price.

Other factors to consider include the following:

- Has Terry bought from this wholesaler before and has he been happy with their products?
- Is the product in stock when he needs it?
- Does the wholesaler carry other products that he needs so that he can optimize his buying efficiency?

# Exercise...

- give 5 - 6 minutes
- solutions to follow on the next slides

1. 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.
2. The cost of a pack of 4 hamburgers is \$4.89, the cost of a pack of 12 buns is \$1.29, and the cost of 24 slices of cheese is \$3.69. What is the cost of 5 cheeseburgers?  
(1 hamburger, 1 slice of cheese, and 1 bun)



1.

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.

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

$$\frac{16}{9} = \frac{27}{x}$$
$$16x = 243$$

$$x = 15.1875$$

The height of the TV would be 15.2 inches.



2.

The cost of a pack of 4 hamburgers is \$4.89, the cost of a pack of 12 buns is \$1.29, and the cost of 24 slices of cheese is \$3.69. What is the cost of 5 cheeseburgers?

(1 hamburger, 1 slice of cheese, and 1 bun)

Hamburger	Bun	Cheese	One Burger:	\$1.22
<u>4.89</u>	<u>1.29</u>	<u>3.69</u>		0.11
4	12	24		<u>0.15</u>
1.2225	0.1075	0.15375		\$1.48
\$1.22 <sub>/h</sub>	\$0.11 <sub>/b</sub>	\$0.15 <sub>/c</sub>	Five Burgers:	\$1.48 × 5 = \$7.40

Five cheeseburgers would cost \$7.40.



## **HOMEWORK...**

**P. 26: Questions #1 - 7.**

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



## Attachments

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1.3\_build\_your\_skills\_detailed\_solutions.pdf