

Mid-Chapter Review

1. Calculate the unit cost for 100 g.

a) cheese at \$12.80/kg

$$\$12.80 \div 10 = \$1.28/100 \text{ g}$$

b) sausage at \$2.89 for 375 g

$$\$2.89/375 \text{ g} \times 100 = \$0.77/100 \text{ g}$$

2. Olivia is buying equipment for her wholesale bakery.

a) She can get two mixers for \$3396 or three mixers for \$4794. Which option is the lower unit price?

$$\$3396 \div 2 = \$1698$$

$$\$4794 \div 3 = \$1598$$

3 mixers for \$4794 is the lower unit price.

b) What factors other than price might Olivia consider when buying mixers?

e.g., safety, durability, warranty, how many she needs

3. Koli sells 2 kg of frozen turkey breasts for \$32.55 and 300 g of fresh turkey breasts for \$7.89. Which is the lower unit price?

$$2 \text{ kg} = 2000 \text{ g}$$

$$\$32.55 \div 2000 \text{ g} = \$0.016/\text{g} \leftarrow \text{lower}$$

$$\$7.89 \div 300 \text{ g} = \$0.026/\text{g}$$

4. Calculate each sale price.

a) 35% off \$780

$$\$780 - (35\% \text{ of } \$780) = \$507$$

c) 5% off \$198

$$\$198 - (5\% \text{ of } \$198) = \$188.10$$

b) $\frac{1}{3}$ off \$780

$$\$780 - (\frac{1}{3} \text{ of } \$780) = \$520$$

d) 12.5% off \$36

$$\$36 - (12.5\% \text{ of } \$36) = \$31.50$$

5. Peter is a locksmith. After he ran ads in the newspaper, his company's sales increased by 4.2% from the previous year. His sales were \$206 890 the previous year. What were his sales after the ads ran?

$$\$206\,890 \times 1.042 = \$215\,579.38$$

His company's sales were \$215 579.38 after the ads.

