

BUILD YOUR SKILLS

1. Vikram purchases 12 sinks for his plumbing business at a wholesale price of \$1053.00. He wants to sell each sink to a different customer. What is the unit price of one sink?
2. A horticulture technician buys lawn fertilizer for several customers. She finds the following prices: 7 kg for \$19.99; 14 kg for \$35.95; 21 kg for \$50.99. Which package has the lowest unit cost?
3. A locksmith in Campbellton, New Brunswick, is buying locks for a new apartment building. One supplier sells locks at \$120.00 for four. Another supplier sells six for \$192.00. Which supplier has the lower cost for one lock? What other factors might you consider when selecting a lock?



This horticulture technician mows the lawn prior to fertilizing it.

4. Joel is a salesperson in a department store that sells T-shirts individually and in packages of two or three. One T-shirt sells for \$9.98, a package of two sells for \$15.49, and a package of three sells for \$22.99.
- Find the unit price when T-shirts are sold in a package of two. How much is the unit price in a package of three?
 - Suppose a customer wants to buy seven T-shirts. Which combination of packages will be the least expensive?
5. The meat department at a large supermarket sells boneless steaks at the following prices:
- \$7.50 for 500 g;
 - \$12.50 for 1 kg; and
 - \$19.50 for 1.5 kg.
- Which of these packages has the lowest unit price?
 - If a customer needs 2.5 kg, which combination of packages should he or she buy to get the best price but not have leftover meat?
6. A different store sells boneless steaks for the following prices:
- \$4.25 for 250 g;
 - \$7.95 for 500 g; and
 - \$29.50 for 2 kg.

Which of these packages has the lowest unit price? How do these prices compare to those in question 5?

Extend your thinking

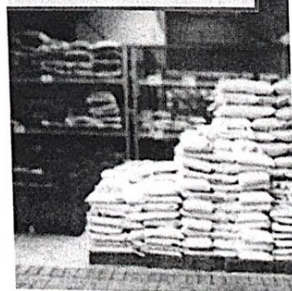
7. A potash mining company in northern New Brunswick is buying industrial first-aid kits in bulk. First-aid kits are available in three sizes.
- A small kit costs \$42.50 and contains enough supplies to meet the needs of 1–9 workers.
 - A medium-sized kit costs \$58.25 and will serve 10–40 workers.
 - A large kit costs \$70.50 and will serve 41–75 workers.

Jason, the buyer, needs to buy kits for 250 workers. Which combination of kits will be the least expensive? What will the total cost be before taxes?



Many people shop around to find a good deal on meat before they buy it.

FERTILIZERS



Canada is the world's largest potash producer. Potash is used to make fertilizers.