

Lesson 24 Practice Problems

1. A sign in front of a roller coaster says "You must be 40 inches tall to ride." What percentage of this height is:
 - a. 34 inches?
 - b. 54 inches?
2. At a hardware store, a tool set normally costs \$80. During a sale this week, the tool set costs \$12 less than usual. What percentage of the usual price is the savings? Explain or show your reasoning.
3. A bathtub can hold 80 gallons of water. The faucet flows at a rate of 4 gallons per minute. What percentage of the tub will be filled after 6 minutes?

4. The sale price of every item in a store is 85% of its usual price.

a. The usual price of a backpack is \$30, what is its sale price?

b. The usual price of a sweatshirt is \$18, what is its sale price?

c. The usual price of a soccer ball is \$24.80, what is its sale price?

(From Unit 2, Lesson 23.)

5. A shopper needs 48 hot dogs. The store sells identical hot dogs in 2 differently sized packages. They sell a six-pack of hot dogs for \$2.10, and an eight-pack of hot dogs for \$3.12. Should the shopper buy 8 six-packs, or 6 eight-packs? Explain your reasoning.

(From Unit 2, Lesson 19.)

6. Elena is 56 inches tall.

a. What is her height in centimeters? (Note: 100 inches = 254 centimeters)

b. What is her height in meters?

(From Unit 2, Lesson 15.)