## Unit 3 Lesson 16 Cumulative 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:
   1. 34 inches?
   2. 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.
   1. The usual price of a backpack is $30, what is its sale price?
   2. The usual price of a sweatshirt is $18, what is its sale price?
   3. The usual price of a soccer ball is $24.80, what is its sale price?

* (From Unit 3, Lesson 15.)

1. 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 3, Lesson 9.)

1. Elena is 56 inches tall.
   1. What is her height in centimeters? (Note: 100 inches = 254 centimeters)
   2. What is her height in meters?

* (From Unit 3, Lesson 4.)



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