## Unit 3 Lesson 14 Cumulative Practice Problems

1. For each problem, explain or show your reasoning.
   1. 160 is what percentage of 40?
   2. 40 is 160% of what number?
   3. What number is 40% of 160?
2. A store is having a 20%-off sale on all merchandise. If Mai buys one item and saves $13, what was the original price of her purchase? Explain or show your reasoning.
3. The original price of a scarf was $16. During a store-closing sale, a shopper saved $12 on the scarf. What percentage discount did she receive? Explain or show your reasoning.
4. Select **all** the expressions whose value is larger than 100.
   1. 120% of 100
   2. 50% of 150
   3. 150% of 50
   4. 20% of 800
   5. 200% of 30
   6. 500% of 400
   7. 1% of 1,000
5. An ant travels at a constant rate of 30 cm every 2 minutes.
   1. At what pace does the ant travel per centimeter?
   2. At what speed does the ant travel per minute?

* (From Unit 3, Lesson 8.)

1. Is 3 cups more or less than 1 liter? Explain or show your reasoning. (Note: 1 cup 236.6 milliliters)

* (From Unit 3, Lesson 4.)

1. Name a unit of measurement that is about the same size as each object.
   1. The distance of a doorknob from the floor is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   2. The thickness of a fingernail is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   3. The volume of a drop of honey is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   4. The weight or mass of a pineapple is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   5. The thickness of a picture book is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   6. The weight or mass of a buffalo is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   7. The volume of a flower vase is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   8. The weight or mass of 20 staples is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   9. The volume of a melon is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.
   10. The length of a piece of printer paper is about 1 \_\_\_\_\_\_\_\_\_\_\_\_\_.

* (From Unit 3, Lesson 2.)



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