Lesson 14 Practice Problems

1. For each problem, explain or show your reasoning.

   a. 160 is what percentage of 40?

   b. 40 is 160% of what number?

   c. 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.

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4. Select **all** the expressions whose value is larger than 100.

     A. 120% of 100

     B. 50% of 150

     C. 150% of 50

     D. 20% of 800

     E. 200% of 30

     F. 500% of 400

     G. 1% of 1,000

5. An ant travels at a constant rate of 30 cm every 2 minutes.

     a. At what pace does the ant travel per centimeter?

     b. At what speed does the ant travel per minute?

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6. Is $3\frac{1}{2}$ cups more or less than 1 liter? Explain or show your reasoning. (Note: 1 cup ≈ 236.6 milliliters)

7. Name a unit of measurement that is about the same size as each object.

   a. The distance of a doorknob from the floor is about 1 _____.

   b. The thickness of a fingernail is about 1 _____.

   c. The volume of a drop of honey is about 1 _____.

   d. The weight or mass of a pineapple is about 1 _____.

   e. The thickness of a picture book is about 1 _____.

   f. The weight or mass of a buffalo is about 1 _____.

   g. The volume of a flower vase is about 1 _____.

   h. The weight or mass of 20 staples is about 1 _____.

   i. The volume of a melon is about 1 _____.

   j. The length of a piece of printer paper is about 1 _____.