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Curated Practice Problem Set

Unit 3 Lesson 15 Cumulative Practice Problems

1. a. To find 40% of 75, Priya calculates $\frac{2}{5} \cdot 75$. Does her calculation give the correct value for 40% of 75? Explain or show how you know.

- b. If x represents a number, does $\frac{2}{5} \cdot x$ always represent 40% of that number? Explain your reasoning.

2. Han spent 75 minutes practicing the piano over the weekend. For each question, explain or show your reasoning.

- a. Priya practiced the violin for 152% as much time as Han practiced the piano. How long did she practice?

- b. Tyler practiced the clarinet for 64% as much time as Han practiced the piano. How long did he practice?

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3. Last Sunday 1,575 people visited the amusement park. 56% of the visitors were adults, 16% were teenagers, and 28% were children ages 12 and under. Find the number of adults, teenagers, and children that visited the park.

4. Order from greatest to least:

- 55% of 180
- 300% of 26
- 12% of 700

5. Complete each statement.

- 20% of 60 is _____
- 25% of _____ is 6
- _____% of 100 is 14
- 50% of 90 is _____
- 10% of _____ is 7
- 30% of 70 is _____

(From Unit 3, Lesson 14.)

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6. A shopper needs 24 sandwich rolls. The store sells identical rolls in 2 differently sized packages. They sell a six-pack for \$5.28 and a four-pack for \$3.40. Should the shopper buy 4 six-packs or 6 four-packs? Explain your reasoning.

(From Unit 3, Lesson 9.)

7. On a field trip, there are 3 chaperones for every 20 students. There are 92 people on the trip. Answer these questions. If you get stuck, consider using a tape diagram.
- How many chaperones are there?
 - How many children are there?

(From Unit 2, Lesson 15.)

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