

Lesson 23 Practice Problems

1. 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 _____

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. 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.

5. Han spent 75 minutes practicing the piano over the weekend. For each question, explain or show your reasoning.
- Priya practiced the violin for 152% as much time as Han practiced the piano. How long did she practice?
 - Tyler practiced the clarinet for 64% as much time as Han practiced the piano. How long did he practice?
6. An ant travels at a constant rate of 30 cm every 2 minutes.
- At what pace does the ant travel per centimeter?
 - At what speed does the ant travel per minute?

(From Unit 2, Lesson 18.)