



Interpret Numerical Expressions

- 1** **Critique Reasoning** Rafiq compares the expressions 4×8 and 8×12 . He says that 8 is twice as much as 4, so 4×8 must be twice as much as 8×12 . Correct his statement, and explain his error.

Compare the numerical expressions.

2 $24 + 7$ and $9 \times (24 + 7)$

3 $12 - 7$ and $4 \times (12 - 7)$

4 $3 \times (21 + 4)$ and $21 + 4$

5 40×5 and 40×20

- 6** **Reason** Tina says that she can compare the expressions 3×10 and 15×20 without multiplying them. Explain how she could compare the factors to compare the expressions without multiplying them.

Test Prep

- 7 Compare the numerical expressions.

$$24 \times 12 \text{ and } 4 \times 12$$

- 8 Which of these statements best describes the relationship between $7 \times (18 - 5)$ and $18 - 5$?

- (A) $7 \times (18 - 5)$ is 7 times as great as $18 - 5$.
- (B) $18 - 5$ is 7 times as great as $7 \times (18 - 5)$.
- (C) $7 \times (18 - 5)$ is 18 times as great as $18 - 5$.
- (D) $18 - 5$ is 18 times as great as $7 \times (18 - 5)$.

- 9 Select all expressions that are twice as great as 12×7 .

- (A) 12×27
- (B) 24×7
- (C) 2×7
- (D) 12×14
- (E) 24×14

- 10 Compare the numerical expressions.

$$9 - 4 \text{ and } 4 \times (9 - 4)$$

Spiral Review

- 11 Josie works a total of 85 hours a month. If she works for the next 9 months, how many hours does Josie work?
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- 12 Use multiplication and the Distributive Property to find $175 \div 5$. Show your work.
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