



## Additional Practice 13-3

### Interpret Numerical Expressions

#### Another Look!

Audrey and Donald played a video game. The expressions below show the number of points each player scored.

Audrey:  $32,700 + 6,140 + 5,050$

Donald:  $(32,700 + 6,140 + 5,050) - 8,815$

How does Donald's score compare to Audrey's?

You can compare some expressions without doing any calculations.



Both expressions contain the same sum.

Audrey:  $32,700 + 6,140 + 5,050$

Donald:  $(32,700 + 6,140 + 5,050) - 8,815$

The expression for Donald's score shows 8,815 subtracted from the sum.

So, Donald's score is 8,815 points less than Audrey's score.

In **1** and **2**, without doing any calculations, describe how Expression A compares to Expression B.

1. **A**  $(23,000 - 789) \times 19$

**B**  $23,000 - 789$

2. **A**  $6\frac{4}{5} + (88 \times \frac{3}{10})$

**B**  $88 \times \frac{3}{10}$

In **3–6**, without doing any calculations, write  $>$ ,  $<$ , or  $=$ .

3.  $(714 \div 32) - 20$    $(714 \div 32) - 310$

4.  $0.1 \times (716 + 789)$    $716 + 789$

5.  $\frac{1}{2} \times (228 + 4,316)$    $(228 + 4,316) \div 2$

6.  $(3.9 \times 8) + (3.9 \times 4)$    $3.9 \times 15$

7. Which expression is 16 times as large as  $18,233 - 4,006$ ?

(A)  $(18,233 - 4,006) + 16$

(B)  $(18,233 - 4,006) \times 16$

(C)  $(18,233 - 4,006) \div 16$

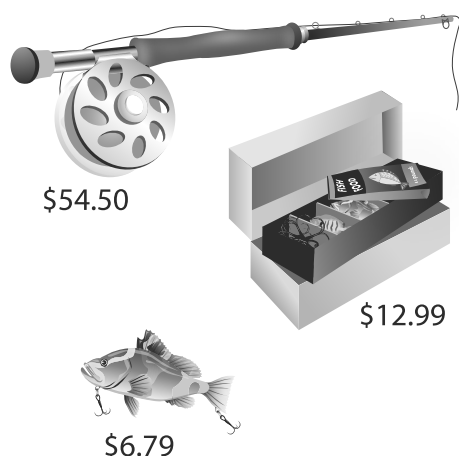
(D)  $(18,233 \times 16) - 4,006$



**8. Use Structure** Sid paid \$6.80 for wrapping paper and \$7.35 for ribbon. He wrapped identical gifts for all of his cousins. Sid wrote the expression  $(6.80 + 7.35) \div 8$  to help him calculate how much it cost him to wrap each gift. How many gifts did Sid wrap? Explain.

**9. Construct Arguments** Yolanda bought  $3 \times \left(\frac{1}{4} + \frac{7}{8} + 1\frac{1}{2}\right)$  pounds of cheese. Sam bought  $2 \times \left(\frac{1}{4} + \frac{7}{8} + 1\frac{1}{2}\right)$  pounds of cheese. Without doing any calculations, determine who bought more cheese. Explain.

**10.** Jack bought the fishing gear pictured. The sales tax was calculated by multiplying the total cost of the fishing gear by 0.07 and rounding to the nearest cent. How much did Jack pay for the fishing gear including sales tax?



**11.** Cy bought a laptop computer, a printer, and a router. Cy used a \$35 coupon to make the purchase. He wrote  $(1,415.00 + 277.50 + 44.95) - 35$  to show how he can calculate the final cost, not including sales tax. Write an expression that can be used to find the total price of the items he bought before sales tax and the coupon.

**12. Higher Order Thinking** Arrange expressions A, B, C, D, and E in order from least to greatest.

- A**  $(9,311 + 522) \times 4.8$
- B**  $9,311 + 522$
- C**  $(9,311 + 522) \times \frac{1}{2}$
- D**  $25 \times (9,311 + 522)$
- E**  $(9,311 \times 5) + (522 \times 5)$

### Assessment Practice

**13.** Which statement describes the expression  $4 \times (17 - 9 + 28)$ ?

- (A)** Four times the sum of 9 and 28 subtracted from 17
- (B)** Four times 17 minus 9 plus 28
- (C)** Twenty-eight added to the difference of 17 and 9, then multiplied by 4
- (D)** Nine plus 28 subtracted from the product of 4 and 17