17

Name _____ Date _____

Draw a tape diagram and write an expression to represent the statement.

1. Double the sum of 9 and 6

2. The difference between 67 and 43, then divide by 2

3. 3 times as much as the sum of 11 and 29

4. The sum of two 18s and three 12s

Write a statement and an expression to represent the tape diagram. Then evaluate your expression.

5.

37	18	37	18	37	18	37	18

Statement: _____

Expression: _____

Value of expression: _____

6.

9	9	9	9	7	7

Statement: _____

Expression: _____

Value of expression: _____

7. Evaluate.

a. $40 + (3 \times 9) - 6$

b. $(40 + 3) \times (9 - 6)$

c. Why do expressions (a) and (b) have different values?

8. Kelly forgot to put parentheses in her equation. Write parentheses to make her equation true.

$$6 + 8 \times 12 - 2 = 140$$

Use >, =, or < to compare the expressions. Explain how you can compare the expressions without evaluating them.

9. $35 \times (12 + 28)$ _____ $(12 + 28) \times 70$

Explain:

10. 225×81 _____ $(200 + 25) \times (80 + 1)$

Explain:

11. $(48 \times 7) - (37 \times 7)$ _____ $(5 \times 7) + (5 \times 7)$

Explain:

12. Consider the statement.

    5 times as much as the sum of 319 and 758

    a. Adesh makes a mistake when he writes an expression to represent the statement. What mistake does Adesh make?

$$(5 \times 319) + 758$$

    b. Write an expression to represent the statement.

    c. Evaluate the expression you wrote in part (b).