

Name _____

Each of the 23 questions is worth 4 points plus 1 point for each of 8 homework problems for a total of 100

Simplify the expression by combining like terms.

1) $9x + 2x$

2) $-3b + 3a - 2c - 5b + 7a$

Multiply.

3) $-5(17x)$

4) $-3(7a + 5)$

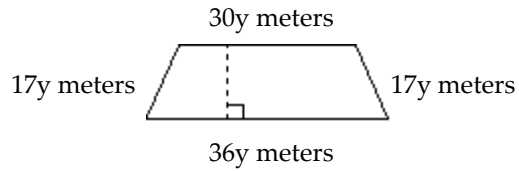
Simplify the expression.

5) $5(x - 6) + 10$

6) $3(-5x + 2) + 7(x - 1)$

Find the perimeter or area of the figure as indicated.

7) Find the perimeter of the trapezoid.



Solve the equation.

8) $x - 6 = -3 - 28$

9) $5x = 6(x + 8) + 8$

10) $-10x + 10 = -20$

11) $-4(x + 2) - 24 = -10 - 6$

Write the phrase as a variable expression. Use x to represent "a number."

12) Fifteen subtracted from a number

13) Four times the sum of a number and -37

Solve the equation.

14) $6 - t = 20$

15) $13 + 3x - 9 = 10x - 16 - 5x$

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16) $34 - 69 = 5(x - 3)$

17) $2(y + 8) = 3(y - 6)$

Write the sentence as an equation.

18) The sum of -39 and 21 equals -18.

Write the sentence as an equation. Use x to represent "a number."

19) Eight times the sum of a number and -192 is 64.

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Solve.

20) The difference of a number and 9 is 37 less the number. Find the number.

21) The product of a number and -7 equals twice the sum of that number and -63 . Find the number.

22) During an intramural basketball game, Team A scored 18 fewer points than Team B. Together, both teams scored a total of 144 points. How many points did Team A score during the game?

In retailing, the retail price P of an item can be computed using the equation $P = C + M$, where C is the wholesale cost of the item and M is the amount of markup.

23) A retailer sells a game for \$38. If his wholesale cost for the game was \$21, what was his markup?