

Name: _____ Date: _____ Score: ____ / 10

INSTRUCTIONS

For multiple-choice questions, circle the letter of the correct answer. For short-answer and problem-solving questions, show your complete work in the space provided. No calculator unless your teacher says otherwise.

1 Solve: $x + 7 = -3$

Multiple Choice

A $x = -10$

B $x = 10$

C $x = -4$

D $x = 4$

2 Solve: $4x - 5 = 11$

Multiple Choice

A $x = 4$

B $x = 1.5$

C $x = 16$

D $x = 6$

3 Solve: $3x + 2 = x - 8$

Multiple Choice

A $x = -5$

B $x = 5$

C $x = -3$

D $x = 3$

4 Short Answer — Solve the literal equation $A = \frac{1}{2}bh$ for h .

Short Answer

5 Solve: $2(x - 3) = 4x + 2$

Multiple Choice

A $x = -4$

B $x = 4$

C $x = -2$

D $x = 2$

6 Solve the proportion: $x/4 = 15/20$

Multiple Choice

A $x = 3$

B $x = 5$

C $x = 12$

D $x = 0.75$

7 Short Answer — Solve: $x/3 + 5 = 9$

Short Answer

8

Solve: $2(x + 4) = 2x + 9$

Multiple Choice

A

 $x = 1$

B

No solution

C

Infinite solutions

D

 $x = 0$

9

Problem Solving — Solve the literal equation $3x + 2y = 12$ for y . Show all steps.

Problem Solving

10

Problem Solving — Three consecutive integers sum to 72. Write an equation and find the three integers.

Problem Solving