

Chapter 1 Review

Multiple Choice

Identify the choice that best completes the statement or answers the question.

Solve the equation. (DO YOUR WORK ON A SEPERATE PIECE OF PAPER). Check your solution.

- ___ 1. $a - 8 = 11$
a. -3
b. 3
c. 19
d. 1.38
- ___ 2. $-4 = z - 11$
a. 7
b. -15
c. 0.36
d. -7
- ___ 3. $d - 8.1 = -15.8$
a. -23.9
b. 7.7
c. 1.95
d. -7.7
- ___ 4. $24(2 - d) + 9d = 198$
a. -10
b. -7
c. -16.4
d. 4.5
- ___ 5. Which of the following equations is equivalent to the equation $30 = -2(-2x + 6)$?
a. $30 = 4x + 12$
b. $30 = 4x - 12$
c. $30 = 4x + 6$
d. $30 = 4x - 6$
- ___ 6. Which of the following describes a correct method for solving the equation below?
$$-\frac{1}{2} = 6 - \frac{2}{3}x$$

a. Add 6 to both sides, then divide both sides by $\frac{3}{2}$
b. Subtract 6 from both sides, then multiply both sides by $-\frac{2}{3}$
c. Add -6 to both sides, then multiply both sides by $-\frac{3}{2}$
d. Subtract 6 from both sides, then add $\frac{2}{3}$ to both sides.

Solve the equation.

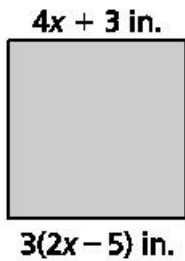
- ___ 7. $-5h - 8 = -5h + 8$
a. -16
b. no solution
c. 16
d. infinitely many solutions
- ___ 8. $\frac{1}{2}(-16s - 20) = -8s - 10$
a. no solution
b. 10
c. infinitely many solutions
d. -10

- _____ 9. $3.5 + 6b = -0.5 + 6b$
- a. -4
 - b. no solution
 - c. infinitely many solutions
 - d. 4

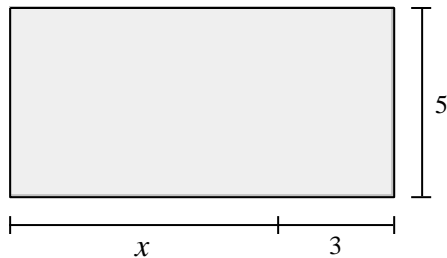
Numeric Response (DO YOUR WORK ON A SEPERATE PIECE OF PAPER)

Solve the equation. (DO YOUR WORK ON A SEPERATE PIECE OF PAPER). Check your solution.

1. $8p - 47 = 15p + 2$
2. $4(4m - 3) = 6m$
3. The equation $R = 10A - 20$ represents the revenue R (in dollars) you make by spending A dollars on advertising. Your revenue totaled \$110. How much did you spend on advertising?
4. Find the perimeter of the square.



5. The cost (in dollars) of making d calculators is represented by $C = 11d + 42$. How many calculators are made when the cost is \$273?
6. The area of the rectangle is 50 square inches. What is the measure of x in inches?



Short Answer

Solve the equation. (DO YOUR WORK ON A SEPERATE PIECE OF PAPER). Check your solution.

1. $4 - c = -\frac{1}{3}$

Solve the equation. Check your solution.

2. $2d - 5 = 3$

3. $-3(n + 6) + 10 = -8$

Solve the equation. Check your solution, if possible.

4. $6r - 8 = 8 + 6r$

Solve the equation for y.

5. $\pi = 4x - 3y$

6. It is 35°C at your school and 90°F at home. Where is the temperature higher?

Solve the equation for the bold variable.

7. $V = \ell wh$

Chapter 1 Review Answer Section

MULTIPLE CHOICE

1. C
2. A
3. D
4. A
5. B
6. C
7. B
8. C
9. B

NUMERIC RESPONSE

1. -7
2. 1.2
3. $\$13$
4. 156 in.
5. 21
6. 7 in.

SHORT ANSWER

1. $c = 4\frac{1}{3}$
2. $d = 9$
3. $n = 0$
4. no solution
5. $y = \frac{4}{3}x - \frac{\pi}{3}$
6. at your school
7. $w = \frac{V}{\ell h}$