

Chapter 8 Review Questions

1. Select the equation that has $m = 23.67$ as a solution.

A. $m \times 21 = 497.07$

B. $9m = 212.03$

C. $m + 14 = 9.23$

D. $68 + m = 91.67$

2. Emily counted the candies she had in a jar. She discovered that half of the candies were red. If she had 70 red candies, in which equation does x represent the total number of candies in the jar?

A. $1/2 (70) = x$

B. $1/2 x = 70$

C. $70 x = 70$

D. $70 + 1/2 = x$

3. Which of the following values for Y and S make the statement $Y = S$ true? Select all that apply.

A. $Y = -10 + -2, S = 17 - -5$

B. $Y = 2 + 8, S = 8 - -2$

C. $Y = -6 + -6, S = 18 - -6$

D. $Y = 18 + 4, S = 22 - -4$

4. Juan is saving money for a new mountain bike. The amount (a) Juan needs to save is more than \$80.95. Which inequality models the amount Juan needs to save?

A. $\$80.45 < a$

B. $\$90.45 < a$

C. $a < \$80.45$

D. $a > \$80.45$

5. Create a number line that represents all solutions of $x > 13.5$
6. Create a number line that represents all solutions of $r > -1.25$.
7. Using substitution, in which of the following equations does $y = 4$? Select all that apply.
- A. $7y = 11$
 - B. $3y + 9 = 21$
 - C. $6y + 5 = 28$
 - D. $5y + 3 = 23$
8. Draw a model and solve algebraically on how to solve $8 + y = 13$.
9. Draw a model and solve algebraically on how to solve $3x = 12$.
10. What value of y makes this true? $18 - y < 7$
11. What value of x makes this true? $46 > 19 + x$