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Worksheet 2.R: Equations Review | Chapter 2

Match each vocabulary term with its correct definition:

_____ coefficient	a. Two numbers with a product of 1.
_____ multiplicative inverse	b. A symbol, usually a letter, used to represent a number in expressions.
_____ variable	c. The numerical factor of a term that contains a variable.

Complete the statement: If $10 = \frac{1}{5}x$, then $x + 3 =$ _____ . Explain your reasoning.

Solve each equation. Check your solution.

1. $-24 = -\frac{6}{7}p$

2. $\frac{2}{3}a = 12$

3. $1\frac{7}{8}y = 4\frac{1}{2}$

4. $10.8 = 0.9n$

Solve each two-step equation. (See Lesson 2)

5. $2x + 3 = 7$

6. $3x + 2 = 20$

7. $-1 = \frac{1}{2}a + 9$

8. $\frac{n}{-3} - 2 = -18$

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Worksheet 2.R: Equations Review | Chapter 2

Solve each equation. (See Lesson 4)

9. $8 + x = 3x$

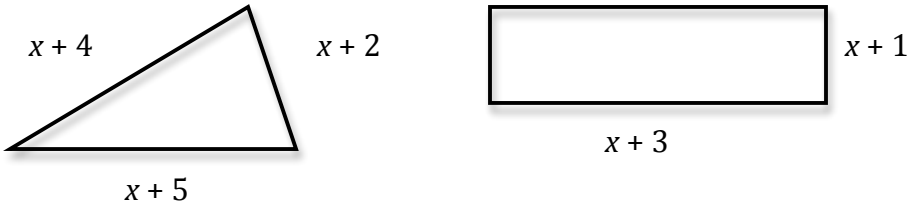
10. $3x + 6 = 6x$

11. $3x + 3 = x - 5$

12. $2x + 5 = 4x - 1$

Write an equation to find the value of *x* so that each pair of polygons has the same perimeter. Then solve. (See Lesson 4)

13.



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Worksheet 2.R: Equations Review | Chapter 2

Solve each equation. (See Lesson 5)

14. $9(j-4)=81$

15. $-3(9+x)=33$

16. $5(a-7)=25$

17. $2(10+t)=4t-2$

For each of the following problems, define your variable. Then write and solve an equation to determine the answer.

18. Hannah joined a dance team. She had to buy a new pair of shoes for $55, and each month of dance classes costs $35. If she spent a total of $265 at the dance studio, how many months of classes did she pay for?

19. Matilda loves reading so much that she has to restrain herself. She wants to read a book that will take about 20 hours to read. She will only let herself read for four hours at a time. She has already read for 8 hours. How many more reading sessions (of four hours each) REMAIN?

20. Morgan is four years older than twice the age of Chad. If Morgan is 56, how old is Chad?