

1. $a, -3a, -3a, -3a, \frac{-3a}{-3}, 5$
2. $x, x, 3x, 16, 16, 3x, 3x, -7$
3. -4
4. -1
5. 4
6. 11
7. $-4\frac{2}{3}$
8. 6
9. 3
10. 9
11. -8
12. -4
13. 3
14. $2\frac{2}{3}$
15. 16
16. 3
17. 3 h
18. 6
19. -2
20. -3
21. -10
22. $\frac{1}{3}$
23. 2.9
24. Answers may vary. Sample: Company A rents a stereo for \$50 plus \$5 per month. Company B rents the same stereo for \$30 plus \$10 per month. For how many months can you rent from either company and pay the same price?
 $50 + 5x = 30 + 10x; x = 4 \text{ months}$
25. $18 - n = n - 4; 11$
26. B
27. The student subtracted $4x$ from the left side of the equation instead of adding $4x$; $x = -\frac{2}{3}$
28. $27.95 + 0.12m = 12.95 + 0.32m; 75 \text{ min}$
29. First use the Distributive Property on the left side. Next, get the variable on the left side only by subtracting a from each side. Then add 15 to each side. Finally, divide each side by 9.
30. 4
31. -3

32. Negative; explanations may vary. Sample: When the variable is on only one side of the equation, its coefficient is positive while the constant on the other side of the equation is negative.
33. A renter of a few movies would prefer the silver card (less expensive for fewer than 10 videos). A renter of many movies would prefer the gold card (less expensive for more than 10 videos).
34. Answers may vary. Sample: (c) add b to each side. You then have $\frac{5}{3}b = 10$, which is a one-step equation; 6.