

Answers for Lesson 6-2, pp. 268–269 Exercises

1. No; the variable factors $x^2y^5z^{11}$ and $x^2z^5y^{11}$ are different.
2. -2
3. $4x + 7y - 6$
4. $9m + 4 + 2n$
5. $8a + 15$
6. $3.7a$
7. $11b$
8. $31r$
9. $31x$
10. z
11. $-11t$
12. $2b$
13. $23a$
14. $24t$
15. $-18j$
16. $4a + 2$
17. $5x + 1$
18. $5n - 3$
19. $9n - 3r$
20. $-6z - 2y$
21. $10 - 3t$
22. Let t = the cost of a T-shirt. Let s = the cost of a pair of shorts.
 $7t + 3s$
23. $23 - 5a$
24. $2t + 63.5$
25. $-27m - 16$
26. $24.08 + 13.3c$
27. $-7b + 2$
28. $12b - 4c - 12$
29. Let d = distance to the mall. $6d + 20$.
30. Let t = the cost of 1 lb of turkey. Let s = the cost of 1 lb of cole slaw. Let c = the cost of 1 lb of cheese. $10t + 5s + 7c$
31. Let b = the cost of a barrette. Let h = the cost of a headband.
 $5b + 3h$
32. $-2b + c + 5$
33. $3x - 2y$
34. 6
35. $x + y + 9$
36. $-2t - 102$
37. $31.66y + 8.4$
38. $-119a + 20.6b$
39. $12x$
40. Similar categories of CDs are grouped together, and terms with similar variables are grouped together.
41. Answers may vary. Sample: $2m + m + 8$; $4m + 2 - m + 6$
42. Answers may vary. Sample: No; $5a$ and $5b$ are not like terms, because the variables are different.

Answers for Lesson 6-2, pp. 268–269 Exercises (cont.)

43. $0.5t - 29v$

44. C

45. G

46. D

47. 20

48. 64%