

Answers for Lesson 1-6, pp. 32-34 Exercises

1. $-9 - (-2) = -7$

2. $3 + (-8) = -5$ or
 $3 - 8 = -5$

3. -4

4. -8

5. 1

6. -2

7. 2

8. -7

9. -5

10. 2

11. 15

12. 17

13. -6

14. 0

15. -1

16. -5

17. -12

18. $6 + (-2)$; 4

19. $6 + 2$; 8

20. $-6 + (-2)$; -8

21. $2 + (-6)$; -4

22. $2 + 6$; 8

23. $-2 + (-6)$; -8

24. $5 + (-11)$; -6

25. $75 + 25$; 100

26. $22 + 7$; 29

27. $87 + 9$; 96

28. $35 + (-15)$; 20

29. $100 + 91$; 191

30. -\$19

31. -15

32. -124

33. -80

34. 19

35. 170

36. 913

37. -60

38. -83

39. -68

40. -52

41. -30

42. 850

43. 10

44. 66

45-50. Answers may vary. Samples are given.

45. $3 - 3 = 0$; $(-4) - (-4) = 0$

46. $15 - 5 = 10$; $-5 - (-15) = 10$

47. $1 - 7 = -6$; $-10 - (-4) = -6$

48. $5 - 20 = -15$; $-20 - (-5) = -15$

49. $7-4=|-3|$; $-2-(-5)=|-3|$

50. $12-1=|11|$; $-5-(-16)=|11|$

51. It decreases. 52. -24°C 53. C

54. 2 55. -60 56. -7

57. 150 58. 10 59. 66

60. 12 61. -40 62. 0

63. 18 64. -30 65. -20

66. $-2-4$; -6 ; \$6

67. $3,000-600$; 2,400; 2,400 ft

68. $0+15-25$; -10 ; -10°F

69-74. Answers may vary. Samples are given.

69. 50 70. -280 71. -470

72. -110 73. 230 74. 80

75. a. Answers may vary. Sample: The temperature at 5:00 P.M. was 5°C , but it dropped 7 degrees after sundown. What is the temperature after sundown?

b. $5+(-7)$; -2°C

76. a. 16, 20, 24, 28

b. 28

c. 24

77. a. $a \geq 5$

Example: When $a = 6$, $|6-5| = |6|-5$.

b. $a < 5$

Example: When $a = 4$, $|4-5| > |4|-5$.

c. none