

ANSWERS FOR 1.2

For use with pages 14-17

1.2 Guided Practice

2. $6x^3, -17x, 5$

$$\begin{aligned} 4. \quad 5 + 2(16 \div 2)^2 &= 5 + 2(8)^2 \\ &= 5 + 2(64) \\ &= 5 + 128 \\ &= 133 \end{aligned}$$

6. -6

8. 45

10. $-5y$

12. $x + 6$

14. $4n + 70; \$94$

1.2 Practice and Applications

16. x^5

18. x^7

20. 256

22. -32

24. 243

26. 64

28. 40

30. 42

32. 20

33. 33

36. 25

38. 53

40. 39

42. $\frac{5}{2}$

44. $\frac{13}{14}$

46. $-\frac{5}{3}$

48. $-2x^2 - 2x$

50. $2n^2 + 11n$

52. $-10x + 10y$

54. $a^2 + ab; 88$

56. $30,000 + 2.5t; \$42,500; \$55,000; \$67,500$

58. $115,000 + 8100t; 228,400$ jobs

60. $37,148 + 15,000t; 97,148$ mi

62. C

64. D

66. B

68.

T-shirt (n)	0	1	2	3	4
Sweatshirts ($8 - n$)	8	7	6	5	4
Money	200	190	180	170	160

T-shirt (n)	5	6	7	8
Sweatshirts ($8 - n$)	3	2	1	0
Money	150	140	130	120

Sample answer:

$$\begin{aligned} 15n + 25(8 - n) &= 15n - 25n + 200 = 200 - 10n \end{aligned}$$

The amount of money decreases by \$10 with every member who orders a t-shirt instead of a sweatshirt.

ANSWERS FOR 1.2 (CONT.)

For use with pages 14-17

1.2 Mixed Review

70. 12 72. 24

74. 16



$$-\frac{1}{2} > -\frac{11}{2}$$

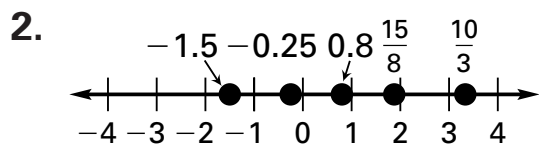
78. associative property of multiplication

80. commutative property of addition

82. $-\frac{1}{22}$ 84. $\frac{1}{12}$

86. $\frac{16}{11}$ 88. $\frac{1}{37}$

Quiz 1



$$-1.5, -0.25, 0.8, \frac{15}{8}, \frac{10}{3}$$

4. associative property of addition

6. $-5\frac{2}{3}$ 8. 76

10. $8x - 11y + 4$

12. $-2x^2 + 5x - 6$

14. $0.35n + 13.95(15 - n)$ or $209.25 - 13.60n$, where n is the number of floppy disks