

ANSWERS FOR 11.1

For use with pages 543-544

11.1 Practice and Problem Solving

10. Yes; each input has exactly one output value.
 12. No; one input, 4, has two output values.

14.

Input x	Output y
-2	$\frac{1}{2}$
-1	$\frac{1}{4}$
0	0
1	$-\frac{1}{4}$
2	$-\frac{1}{2}$

range: $-\frac{1}{2}, -\frac{1}{4}, 0, \frac{1}{4}, \frac{1}{2}$

16.

Input x	Output y
-2	4
-1	1
0	0
1	1
2	4

range: 0, 1, 4

18. $y = 4x$
 20. Yes. *Sample Answer:* For any number of tickets, there is only one corresponding total cost, the number of tickets times the cost per ticket.
 22. $t = -0.5r + 2$
 24. *Sample Answer:* Sometimes you will travel different distances in the same amount of time. If you always traveled at a steady speed, the situation would be a function.

11.1 Mixed Review

26. 414 cm^2

11.1 Test-Taking Practice

28. B

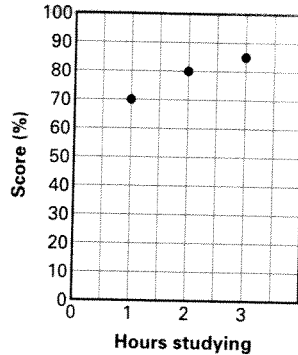
ANSWERS FOR 11.2

For use with pages 547-548

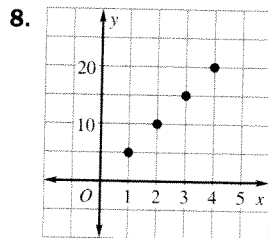
11.2 Practice and Problem Solving

4. positive relationship

6. Study Time and Test Scores



There is a positive relationship. As study time increases, test scores increase.



There is a positive relationship, with each increase of 1 in x corresponding to an increase of 5 in y .

10. no relationship
 12. negative relationship

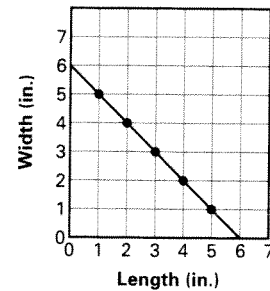
ANSWERS FOR 11.2 (CONT.)

For use with pages 547-548

14.

Length l	Width w
1	5
2	4
3	3
4	2
5	1

Rectangles with Perimeter 12 in.



2.5 in.

11.2 Mixed Review

16. 477 ft^2

18.

Input x	Output y
-2	-1.4
-1	-0.7
0	0
1	0.7
2	1.4

range: -1.4, -0.7, 0, 0.7, 1.4

20.

Input x	Output y
-2	-1.8
-1	-1.4
0	-1
1	-0.6
2	-0.2

range: -1.8, -1.4, -1, -0.6, -0.2

22. 21

24. 55

11.2 Test-Taking Practice

26. F

ANSWERS FOR 11.3

For use with pages 551-553

11.3 Practice and Problem Solving

8. 19, 4, -11, -26
 10. yes 12. no
 14. no
 16. (-1, 7), (0, 5), (1, 3), (2, 1)
 18. (-2, -2), (0, -1), (2, 0), (4, 1)
 20. no 22. no
 24. (-1, 8), (0, 24), (1, 40), (2, 56)
 26. (-1, 18), (0, 17), (1, 16), (2, 15)
 28. (-3, -6), (0, -5), (3, -4), (6, -3)
 30. yes
 32. *Sample Answer:*
 $y = -4x + 42$; (-1, 46), (0, 42), (1, 38), (2, 34)
 34. *Sample Answer:* $y = 2x + 3$;
 (-1, 1), (0, 3), (1, 5), (2, 7)
 36. *Sample Answer:* $\frac{1}{3}x + 2\frac{2}{3}$;
 (-2, 2), (1, 3), (4, 4), (7, 5)
 38. $y = \frac{1}{2}x + 2$
 40. 50 ft; $5\frac{1}{3}$ min
 42. $120 = 10x + y$; 40 min

11.3 Mixed Review

44. 491 in.^2

46.

Input x	Output y
-2	16
-1	14
0	12
1	10
2	8

range: 8, 10, 12, 14, 16

48. 1.3

11.3 Test-Taking Practice

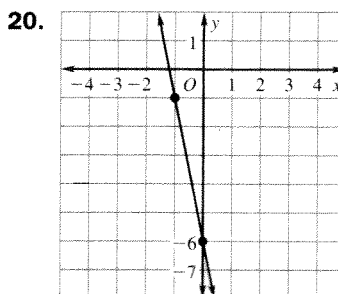
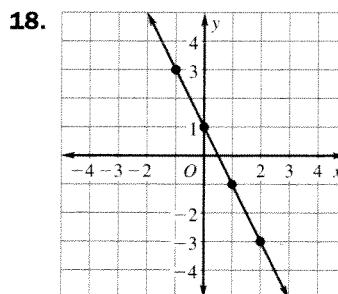
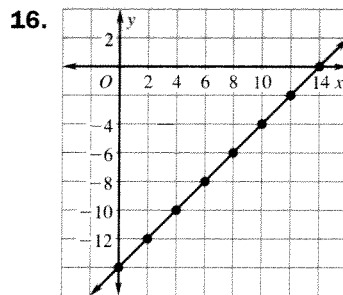
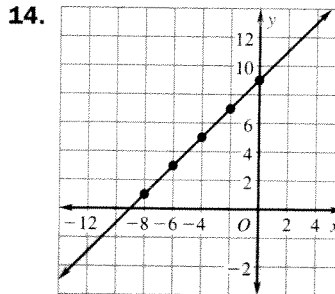
50. 11 movies

ANSWERS FOR 11.4

For use with pages 558-560

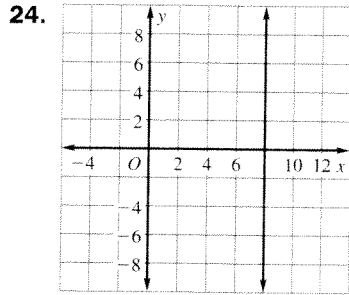
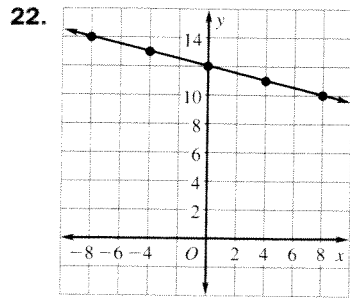
11.4 Practice and Problem Solving

8. yes 10. no
 12. *Sample Answer:*
 (-1, 1), (0, 4), (1, 7)

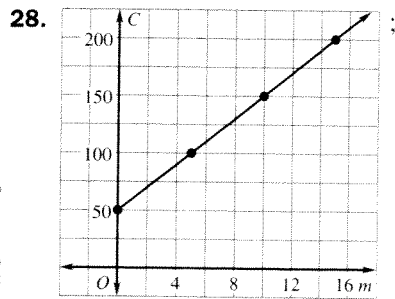


ANSWERS FOR 11.4 (CONT.)

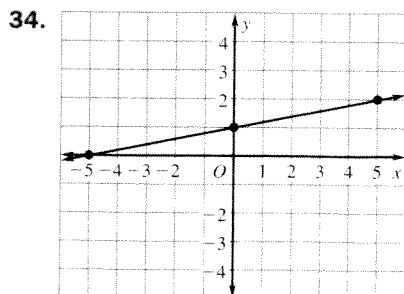
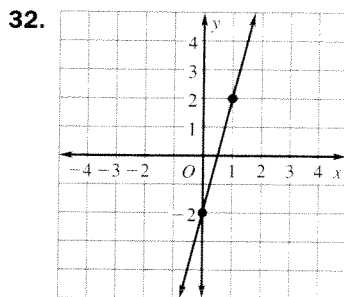
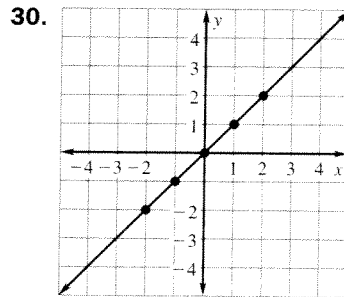
For use with pages 558-560



26. $y = -3$

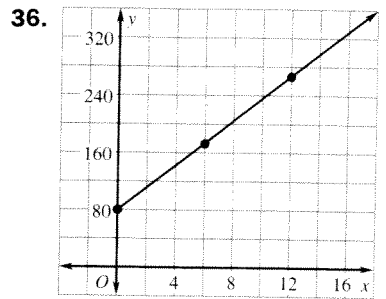


\$170



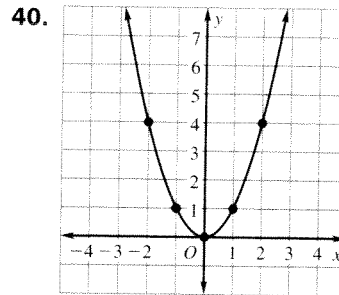
ANSWERS FOR 11.4 (CONT.)

For use with pages 558-560



in 11 mo

38. $x = -5$



Sample Answer: The graph is not a line; the equation contains a variable term that is squared.

Copyright © McDougal Littell Inc.

11.4 Mixed Review

42. 391 square units

44. yes

46. 30

48. 48

11.4 Test-Taking Practice

