LESSON 3
Graphs and Functions
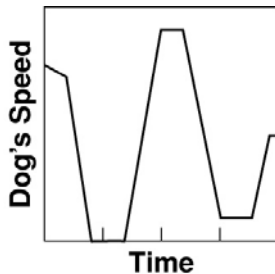## Practice B: Interpreting Graphs

The table gives the speed of three dogs in mi/h at the given times. Tell which dog corresponds to each situation described below.

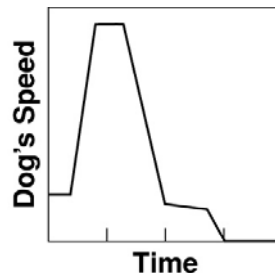| Time	5:00	5:01	5:02	5:03	5:04
Dog 1	0	1	12	0	0
Dog 2	5	23	4	0	0
Dog 3	14	0	18	2	9

1. Leshaan walks his dog. Then he lets the dog off the leash and it runs around the yard. Then they go into the house and the dog stands eating from his dog dish and drinking from his water bowl.

2. Luke's dog is chasing its tail. Then it stops and pants. The dog then runs to the backyard fence and walks along the fence, barking at a neighbor. Then it runs to Luke at the back door.

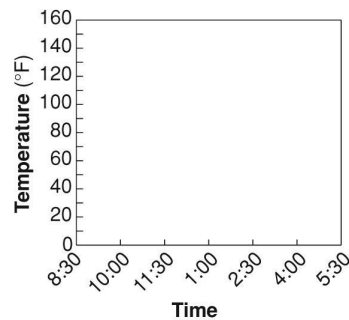**Tell which graph corresponds to each situation in Exercises 1–2.**

3.

4.

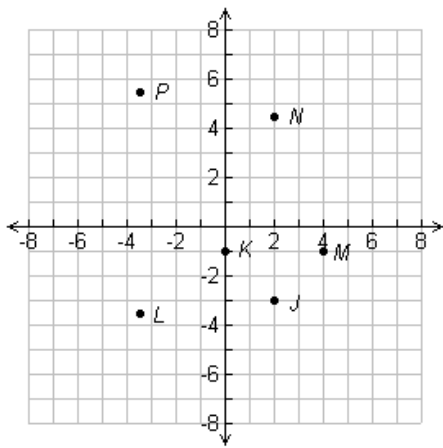5. Create a graph that illustrates the temperature inside the car.

Location	Temperature on Arrival	Temperature on Departure
Home	—	74° at 8:30
Summer job	77° at 9:00	128° at 12:05
Pool	92° at 12:15	136° at 2:30
Library	95° at 2:40	77° at 5:10

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17. octagon   18. 4 units

19. 5.5 units   20. 3 units

21. 8 units

22. 50 units by 35 units

Review for Mastery

1. (1, 3), I   2. (4, −6), IV

3. (−7, 1), II   4. (−4, −3), III

5. (0, −5), no quadrant

6–11.

Challenge

Problem Solving

1. Check students' graphs.

2. rectangle   3. 16 units

4. 15 square units

5. Check students' graphs.

6. square   7. 24 units

8. 36 square units   9. D

10. B   11. B
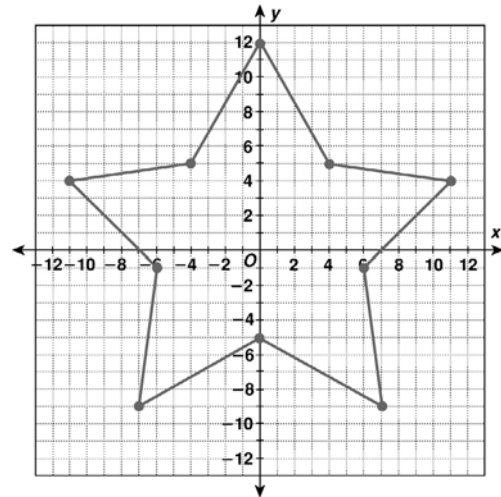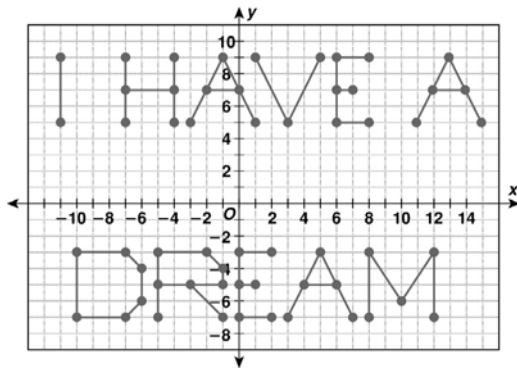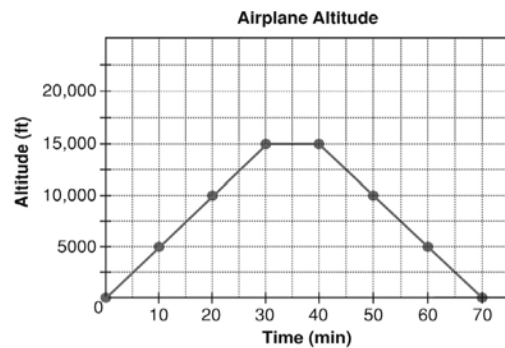
12. C

Reading Strategies

1. the *x*-axis   2. the *y*-axis

3. positive   4. negative

5. positive   6. negative

7. −3; 4

Puzzles, Twisters & Teasers

1–11.

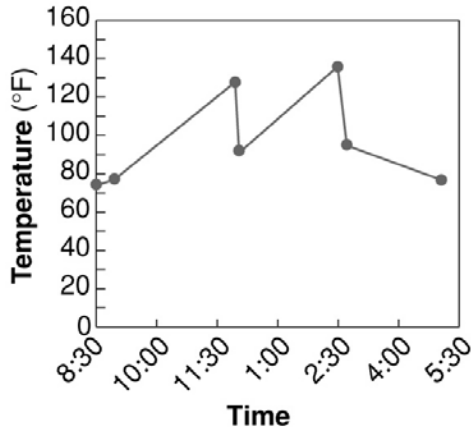## Answers for Lesson 3

Practice A

1. Dog 3   2. Dog 1

3. Exercise 1 (Dog 3)

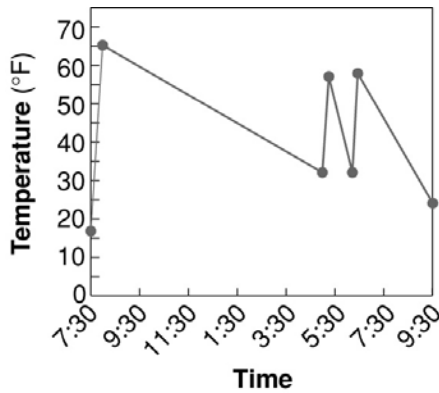4. Exercise 2 (Dog 1)

5.

Practice B

1. Dog 2   2. Dog 3

3. Exercise 2 (Dog 3)

4. Exercise 1 (Dog 2)

5.

Practice C

1. Animal 1 2. Animal 2

3. Exercise 1 (Animal 1)

4. Exercise 2 (Animal 2)

5.

Review for Mastery

1. they all list 0 min 2. 1

3. civics; math 4. 3

5. 1 6. 0

7. 1 8. 3

9. 2

Challenge

1. d 2. c

3. a 4. f

5. b 6. e

Problem Solving

1. Table 2 2. Table 3

3. Table 1 4. A

5. D 6. H

7. C 8. G

Reading Strategies

1. along the bottom of the graph

2. along the left side of the graph

3. letters 4. B

5. E or D

Puzzles, Twisters & Teasers

1. F 2. O

3. U 4. R

Answers for Lesson 4

Practice A

1.

x	$3x + 1$	y
−2	3(−2) + 1	−5
−1	3(−1) + 1	−2
0	3(0) + 1	1
1	3(1) + 1	4
2	3(2) + 1	7

2.

x	$x − 1$	y
−2	−2 − 1	−3
−1	−1 − 1	−2
0	0 − 1	−1
1	1 − 1	0
2	2 − 1	1

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