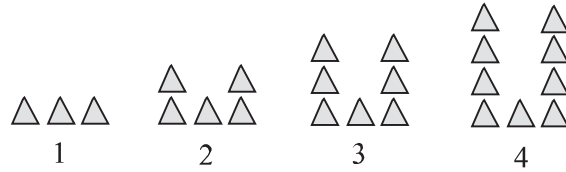


**Practice
4-2****Analyzing Patterns Using Tables and Graphs**

1. a) Draw the next figure in the pattern.



- b) Complete the table.

Figure	Number of triangles
1	3
2	5
3	_____
4	_____
5	_____
6	_____

2. The table shows the relationship between the number of correct answers and the total points.

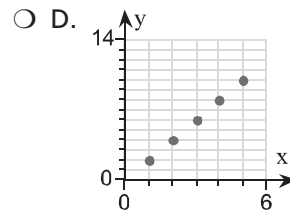
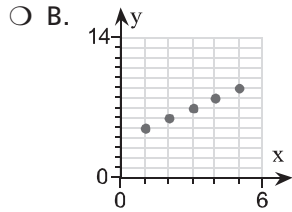
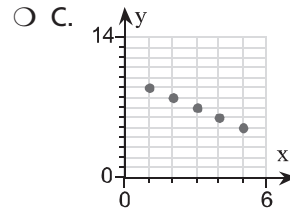
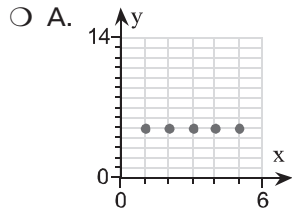
Correct Answer	Total Points
3	9
5	15
7	21
9	27

What is the relationship suggested by the table?

- ☐ A. Square the number of correct answers to find the total points.
- ☐ B. Triple the number of correct answers to find the total points.
- ☐ C. Double the number of correct answers to find the total points.
- ☐ D. Subtract 2 from each correct answer to find the total points.

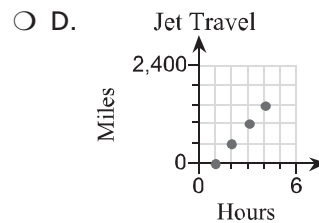
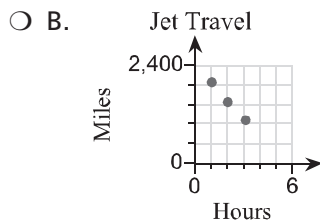
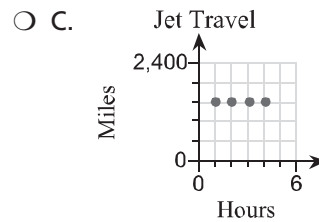
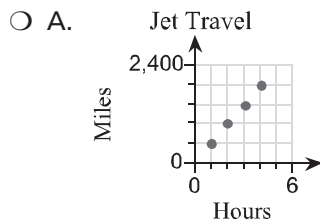
3. Use the table to decide which graph shows the relationship between x and y .

x	y
1	5
2	6
3	7
4	8
5	9



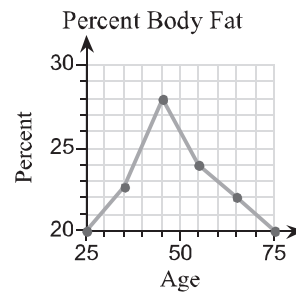
4. Each hour, a passenger jet can travel 480 miles.
Which graph shows the relationship between hours and miles?

Jet Travel	
Hours	Miles
1	480
2	960
3	1,440
4	1,920



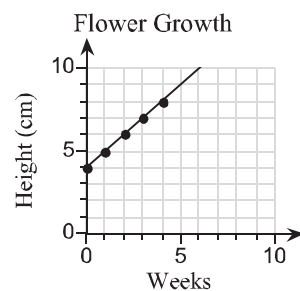
5. The graph shows the relationship between age and percentage body fat in men. Which point falls on the graph?

- ☐ A. (45, 28)
☐ B. (55, 28)
☐ C. (28, 45)
☐ D. (20, 28)



6. The graph shows the relationship between the number of weeks since a flower was planted and its height. Which points fall on the graph? Check all that apply.

- ☐ A. (4, 6)
☐ B. (6, 4)
☐ C. (2, 6)
☐ D. (4, 8)



7. In the table as x increases by 1, the value of y increases by 5.

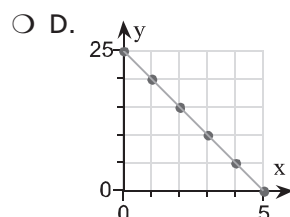
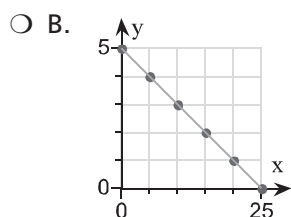
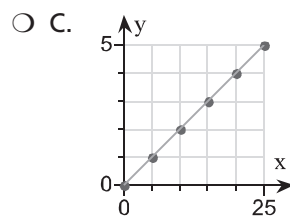
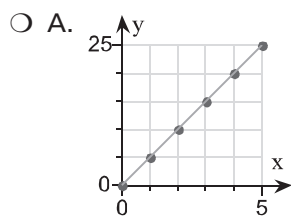
a) Complete the table.

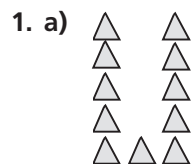
x	0	1	2	3	4	5
y	0	5	10	___	___	___

b) Which statement shows the relationship between x and y ?

- ☐ A. Each value of y is 5 times the corresponding value of x .
- ☐ B. Each value of y is 5 greater than the corresponding value of x .
- ☐ C. Each value of y is 4 times the corresponding value of x .
- ☐ D. Each value of y is 4 greater than the corresponding value of x .

c) Use the table to choose the graph that shows the relationship between the x and y .





- b) 7
9
11
13

2. B

3. B

4. A

5. A

6. C, D

7. a) 15
20
25

b) A

c) A

8. a) 10
20
30

b) D

c) A

9. B

10. a) A, B

b) D

11. a) A

b) C

12. a) 2

4

6

8

b) C

c) B

d) \$120

13. a) 30

32

34

36

b) Answers will vary

14. C

15. a) right, up

b) B

16. a) B

b) 200

400

800

1,000

c) B

d) B