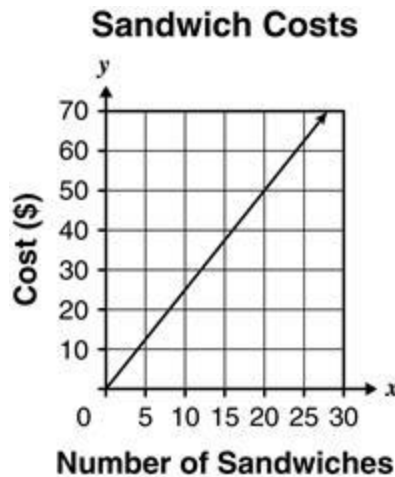1. A cafeteria sells sandwiches. The graph represents the proportional relationship between the number of sandwiches purchased and the total cost.

Sandwich Costs

Which table represents the relationship shown in the graph?

A

Number of Sandwiches	0	1	2	3	4	5
Cost ($)	0	2.00	4.00	6.00	8.00	10.00

B

Number of Sandwiches	0	1	2	3	4	5
Cost ($)	0	2.50	5.00	7.50	10.00	12.50

C

Number of Sandwiches	5	10	15	20	25	30
Cost ($)	10.00	20.00	30.00	40.00	50.00	60.00

D

Number of Sandwiches	5	10	15	20	25	30
Cost ($)	11.00	25.00	38.00	50.00	65.00	72.00

2. The table below shows the amount of money Sarah earns babysitting for different numbers of hours.

Babysitting Earnings

Hours of Babysitting (x)	Total Earnings (y)
1	$5
2	$10
3	$15
4	$20

Which graph best represents Sarah's total earnings for babysitting?

A   Sarah's Earnings

C   Sarah's Earnings

B   Sarah's Earnings

D   Sarah's Earnings

3. Which table shows a proportional relationship between the distances on a map and the actual distances?

A

Distance on the Map (in inches)	Actual Distance (in miles)
1	4
2	8
3	9
4	16

C
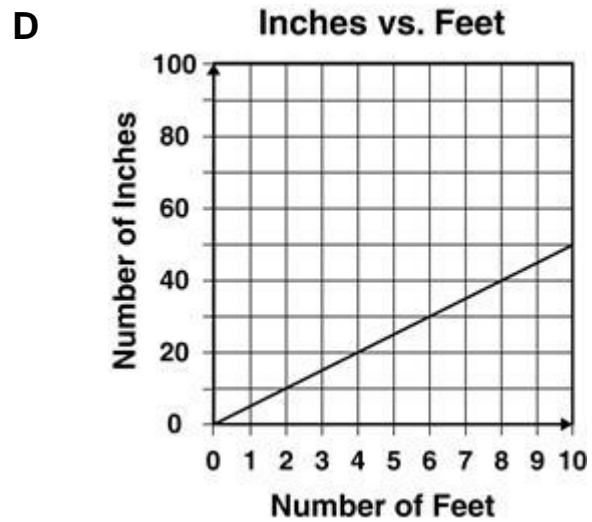
Distance on the Map (in inches)	Actual Distance (in miles)
1	3
3	9
4	16
7	21

B

Distance on the Map (in inches)	Actual Distance (in miles)
1	4
2	8
5	20
6	24

D

Distance on the Map (in inches)	Actual Distance (in miles)
1	3
2	6
5	15
6	30

4. Jackie's salary is proportional to the number of hours she works. Knowing that she made $49 in 7 hours, which graph best models the relationship between the number of hours Jackie works and her salary?

A

Jackie's Salary Based on Hours Worked

C

Jackie's Salary Based on Hours Worked

B

Jackie's Salary Based on Hours Worked

D

Jackie's Salary Based on Hours Worked
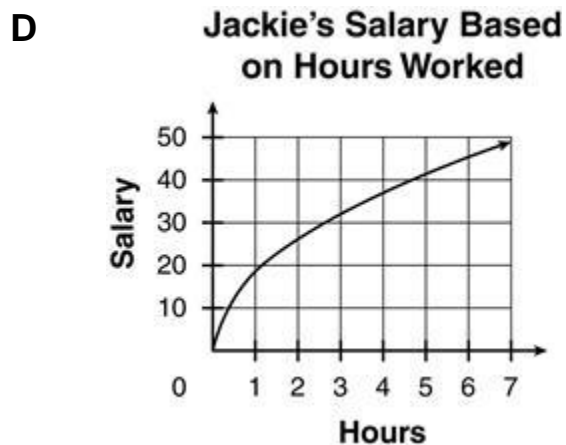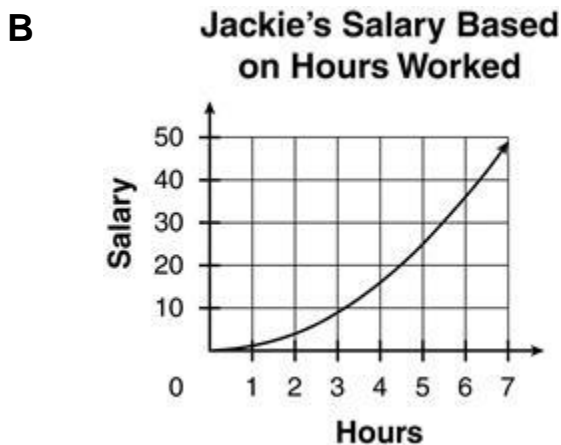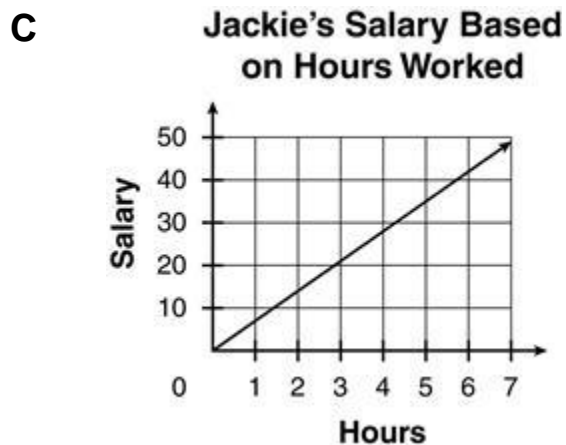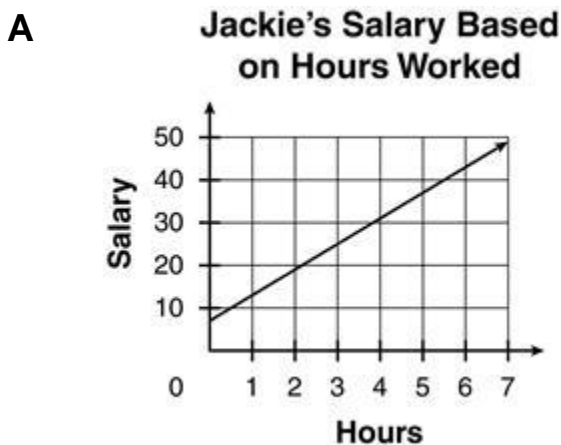
5. Which graph shows the relationship between inches and feet?

A

Inches vs. Feet

C

Inches vs. Feet

B

Inches vs. Feet

D

Inches vs. Feet
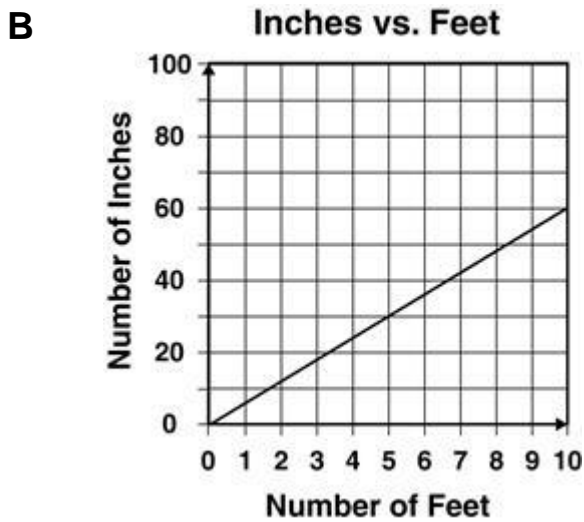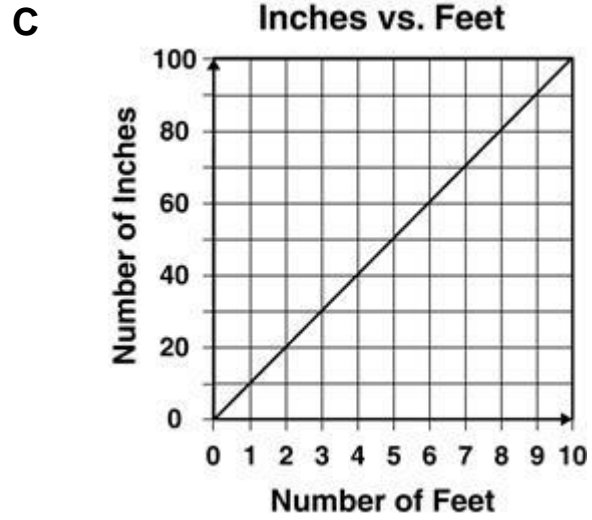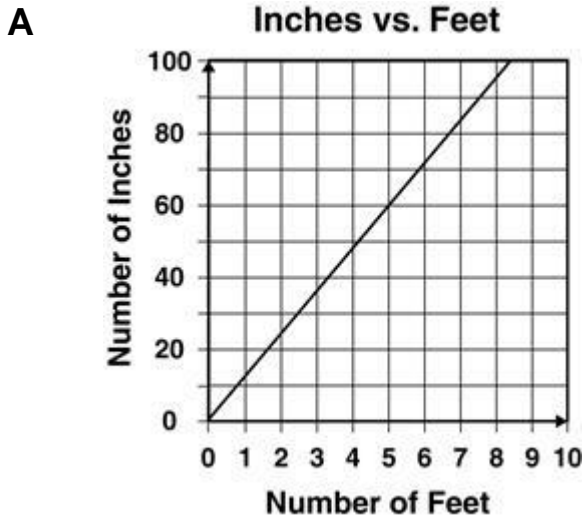
6. A farmer wants to determine how many pounds of fruit he can pick per minute. He finds that he can pick 6 pounds of fruit in 4 minutes, so he plots the point (4, 6) on a graph. If the farmer uses this point to make a line showing the relationship between the number of minutes he spends picking fruit and the number of pounds of fruit he picks, which of these points will also be on that line?

A   (3, 2)   **C**   (6, 9)
B   (5, 10)   **D**   (7, 9)

7. Which graph represents the relationship between the radius of a circle and its circumference, as shown in the table below?

Radius (mm)	Circumference (mm)
1	6.28
2	12.56
3	18.84
4	25.12

A
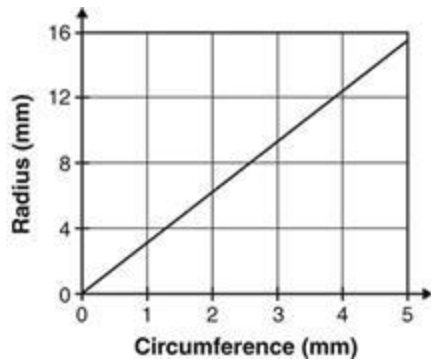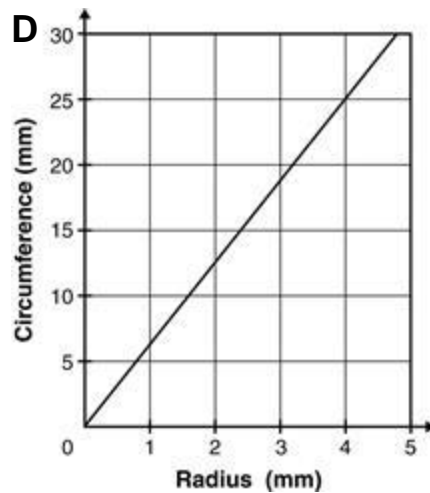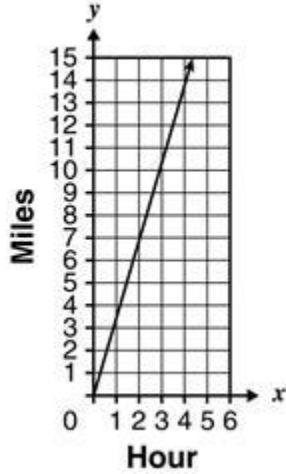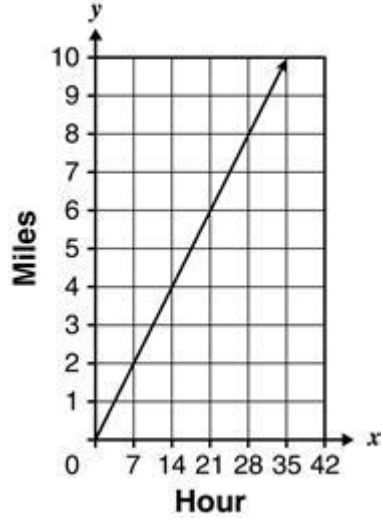

C
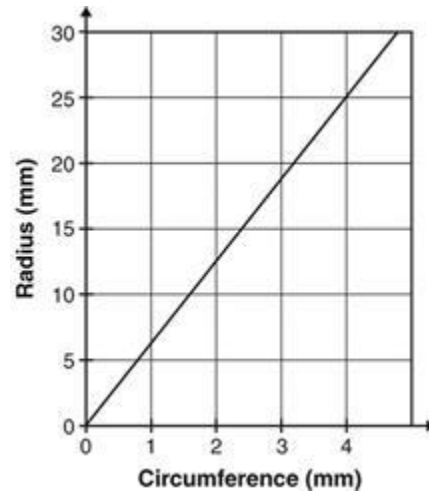
B
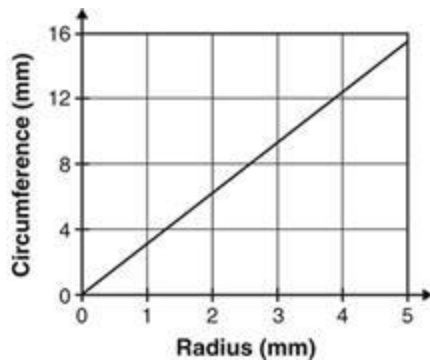
D

8. Tevon runs at an average speed of 3.5 miles per hour. Which graph best represents the relationship between the distance and time as Tevon runs?
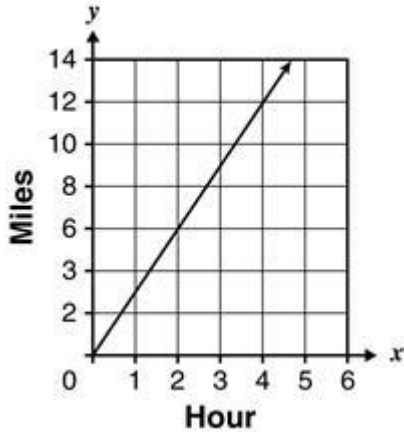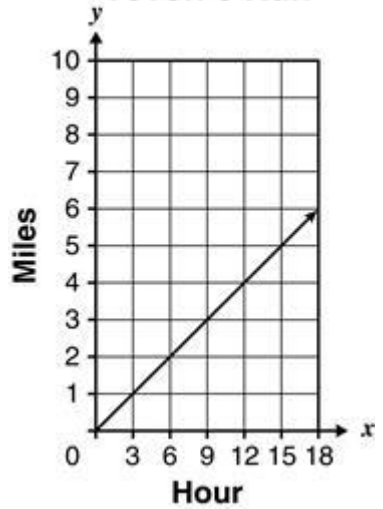
**A**

Tevon's Run

C

Tevon's Run

B

Tevon's Run

D

Tevon's Run

9. The table shows the relationship between the actual height of an object, in centimeters, and the height of its projected image on a screen in inches.
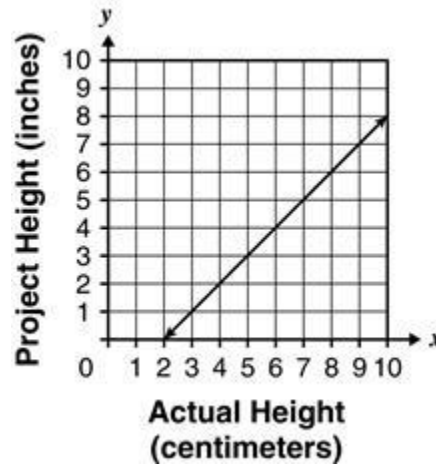
Height of an Object

Actual Height, x (centimeters)	Project Height (inches)
1	2
2	4
3	6
4	8
5	10

Which graph represents a line containing the data shown in the table?

A

Actual Height
(centimeters)

C

Actual Height
(centimeters)

B

Actual Height
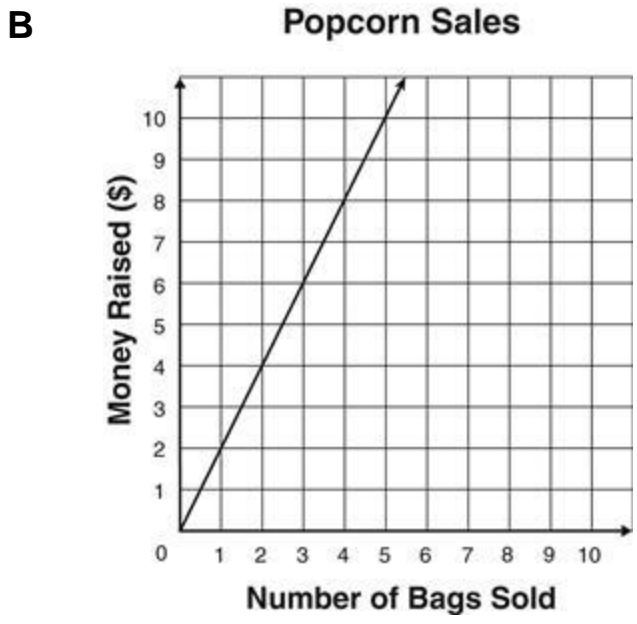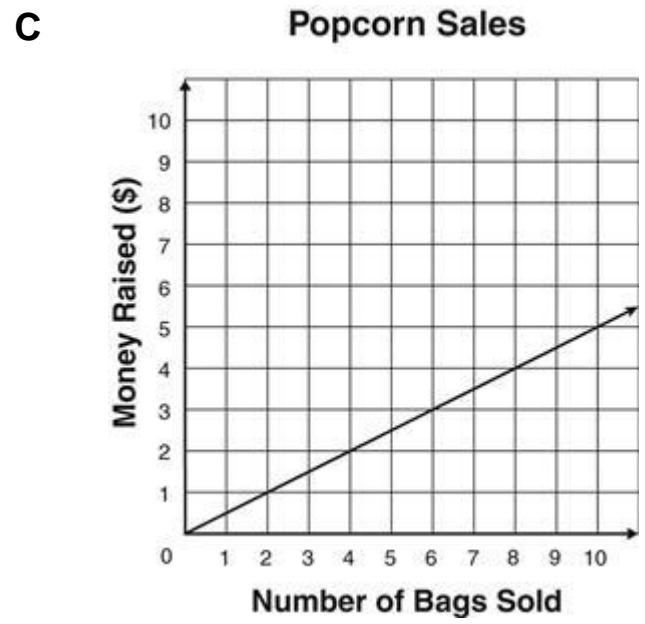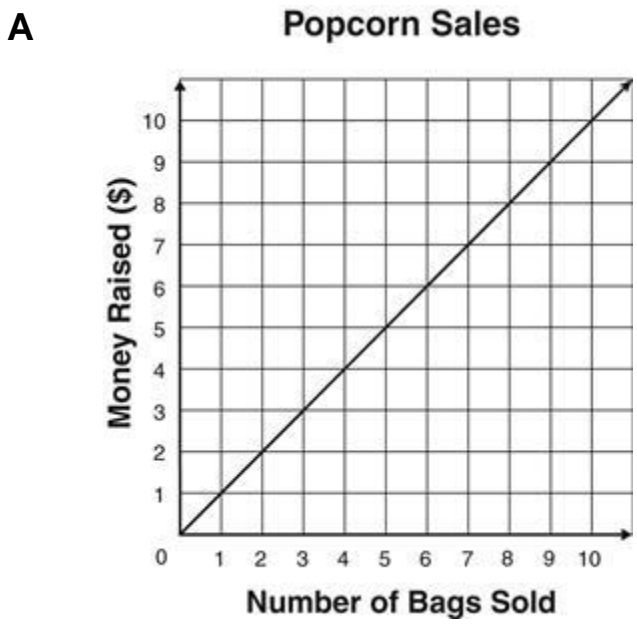(centimeters)

D

Actual Height
(centimeters)
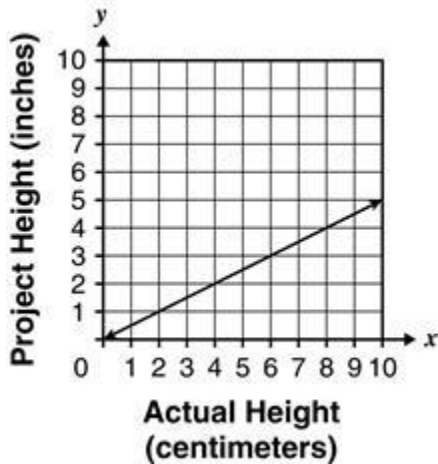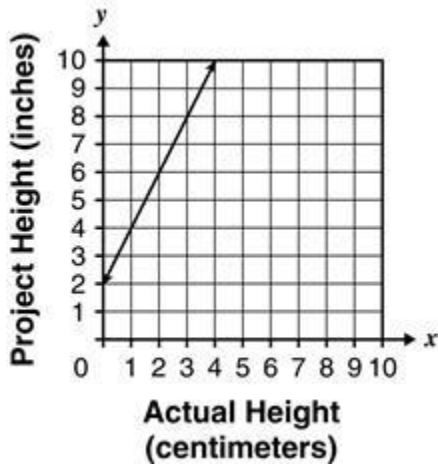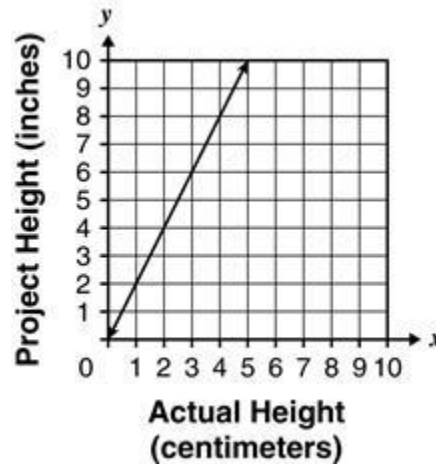
10. For her club's fundraiser, Delecia is selling popcorn bags for $0.50 each. Which graph best represents the relationship between the number of popcorn bags she sells and the amount of money she will raise?
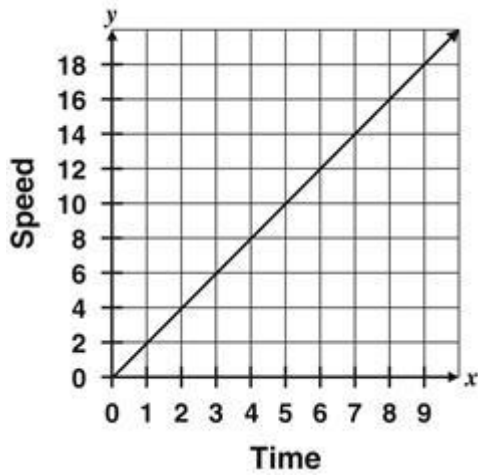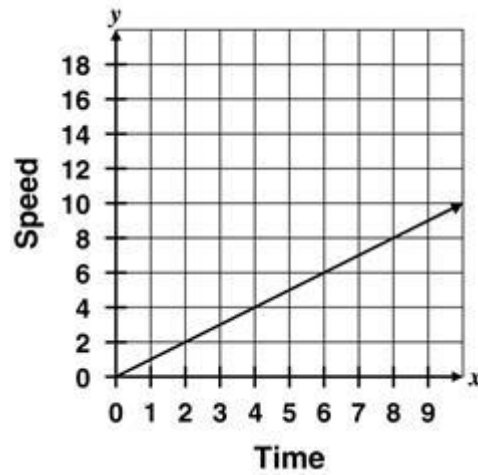
A

Popcorn Sales

B

Popcorn Sales

C

Popcorn Sales

D

Popcorn Sales
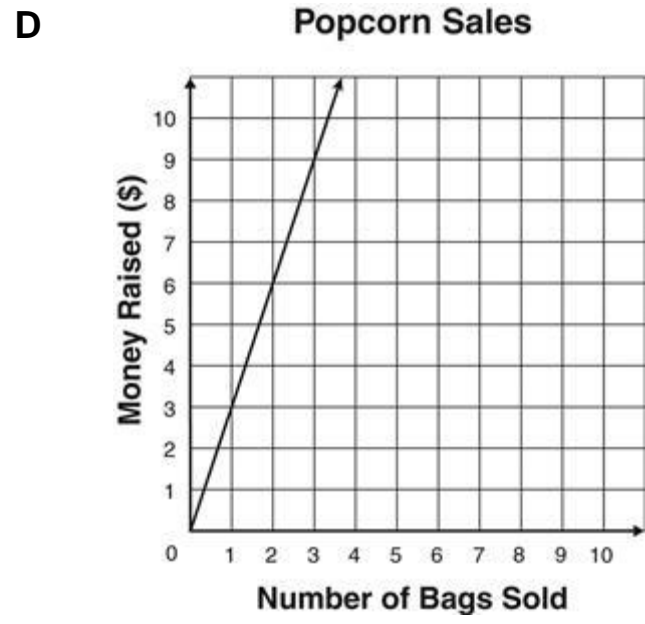
11. Which graph correctly represents the information from the table?

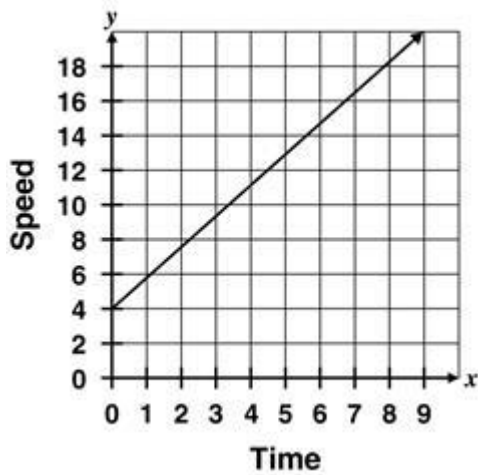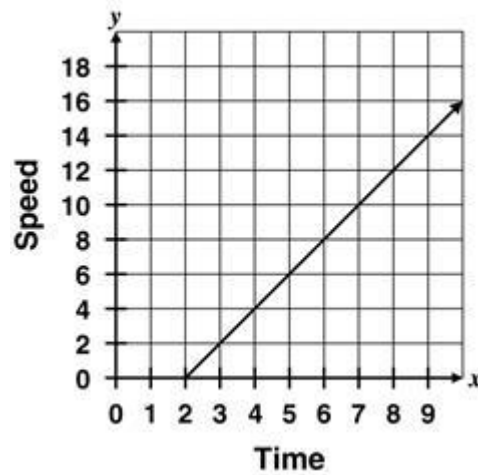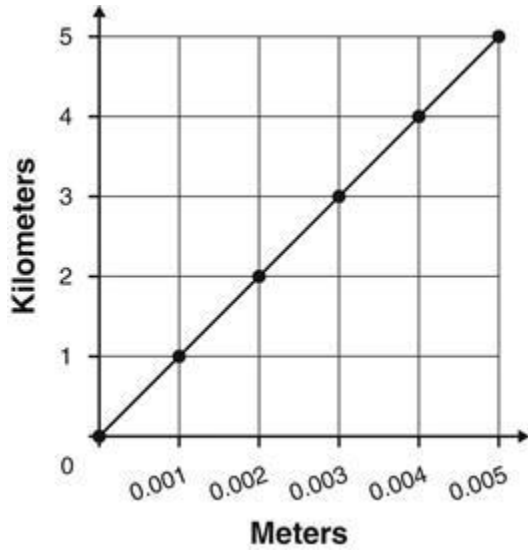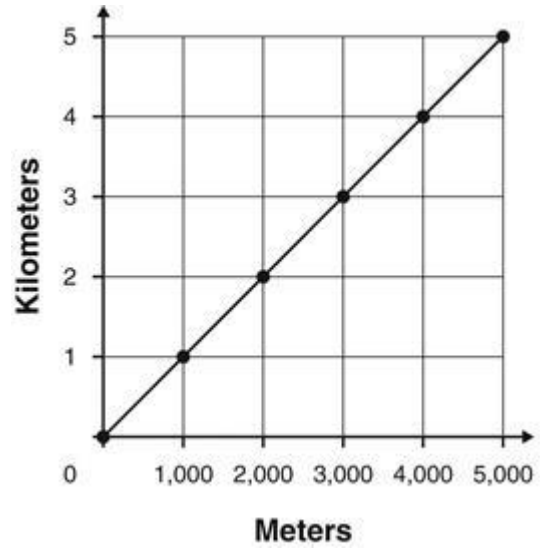| Time (s)	Speed (m/s)
0	0
2	4
3	6
4	8
6	12

A

B

C

D

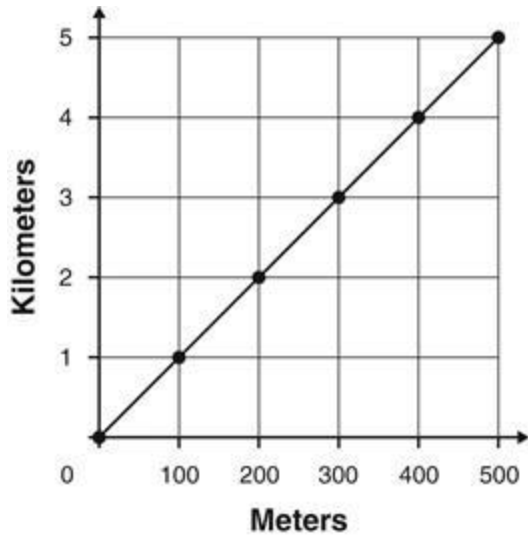**12.** Which graph shows correctly the number of meters per kilometer?
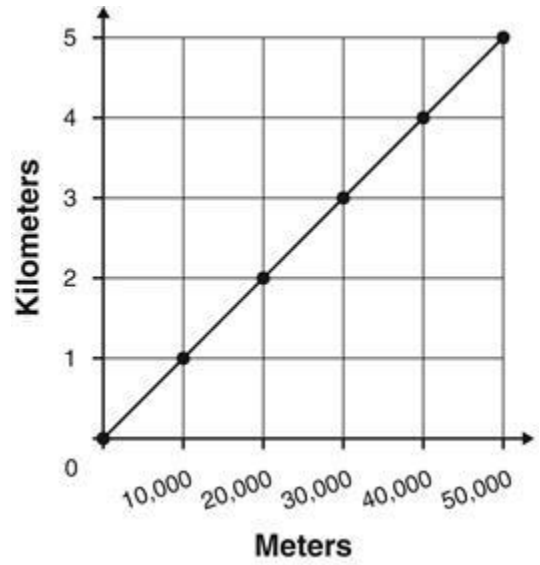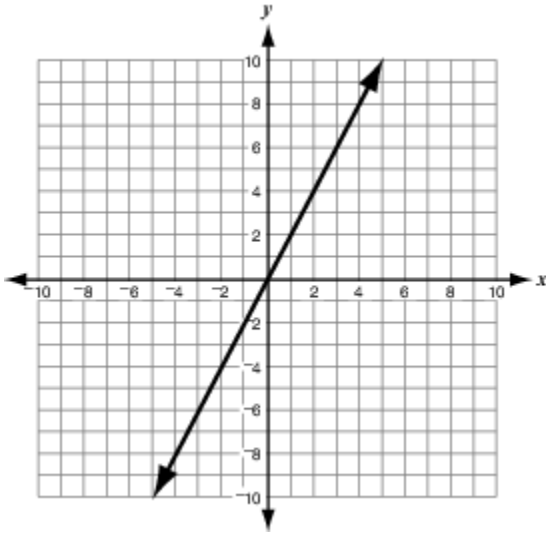
A

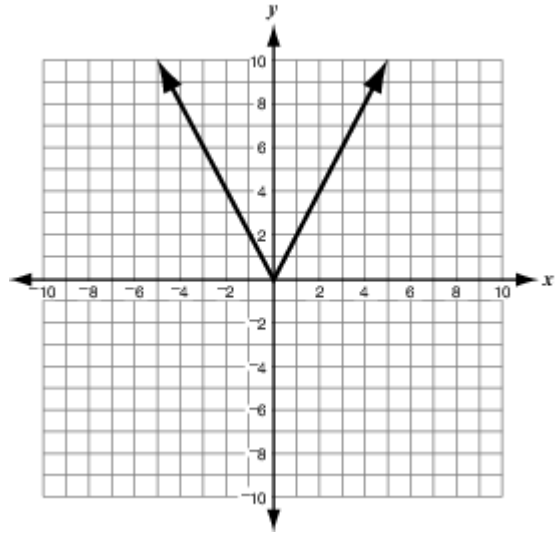

Kilometers (vertical axis): 0, 1, 2, 3, 4, 5
Meters (horizontal axis): 0.001, 0.002, 0.003, 0.004, 0.005

C

Kilometers (vertical axis): 0, 1, 2, 3, 4, 5
Meters (horizontal axis): 0, 1,000, 2,000, 3,000, 4,000, 5,000

B

Kilometers (vertical axis): 0, 1, 2, 3, 4, 5
Meters (horizontal axis): 0, 100, 200, 300, 400, 500

D

Kilometers (vertical axis): 0, 1, 2, 3, 4, 5
Meters (horizontal axis): 10,000, 20,000, 30,000, 40,000, 50,000

13. Which graph shows a proportional relationship between *x* and *y*?

A

C

B
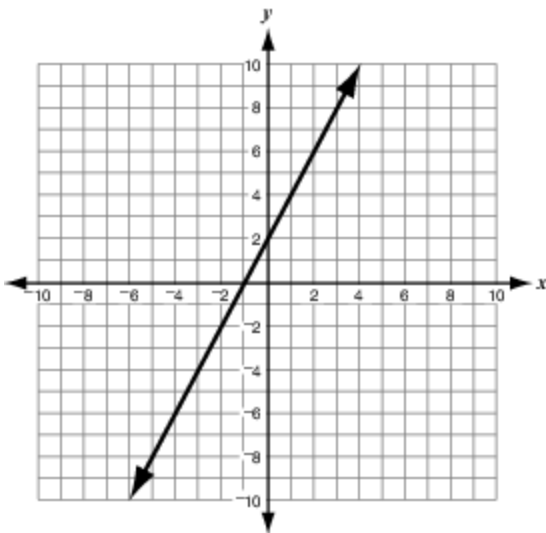
D
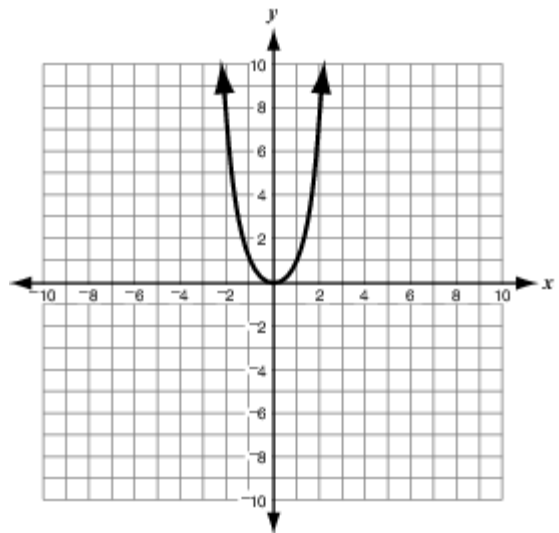
14. The table of values below represents a proportional relationship.

x	y
2	7
4	14
—	35

What is the value of the missing number?

A	8	**C**	14
B	10	**D**	122.5

15. Look at point S in the coordinate grid below.
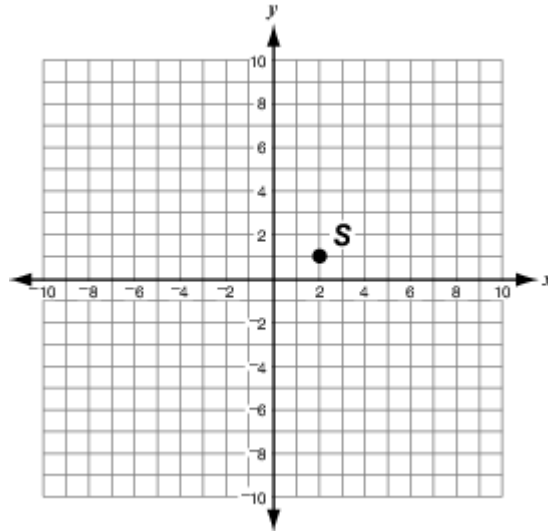
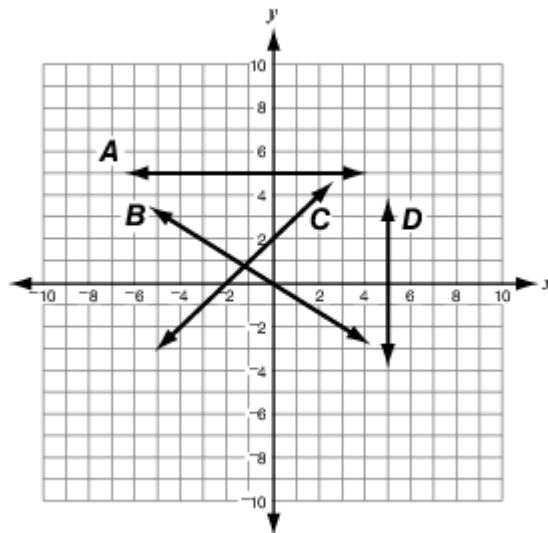If a line contains both point S and the origin, which point would the line also contain?

A   (12, 8)   C   (15, 9)
B   (14, 7)   D   (20, 12)

16. Look at the lines in the grid below.

Which line represents a proportional relationship?
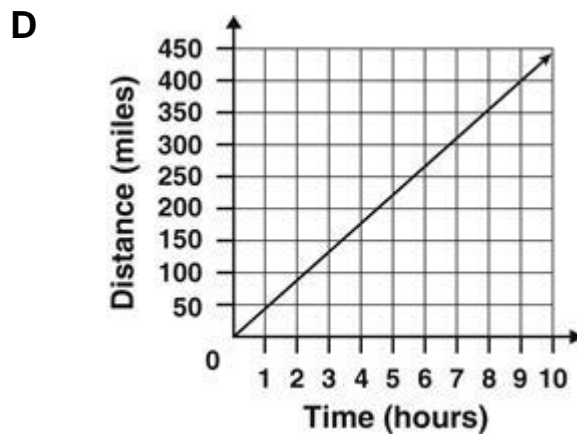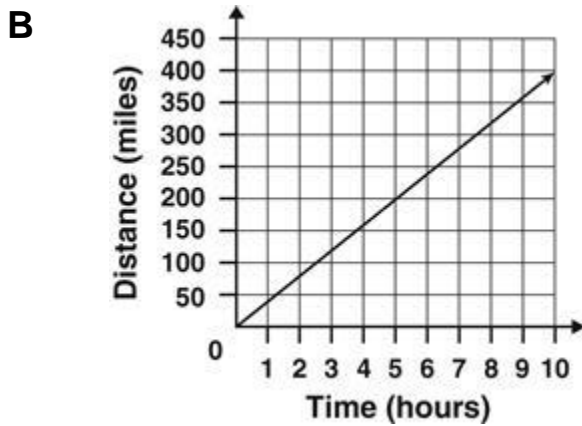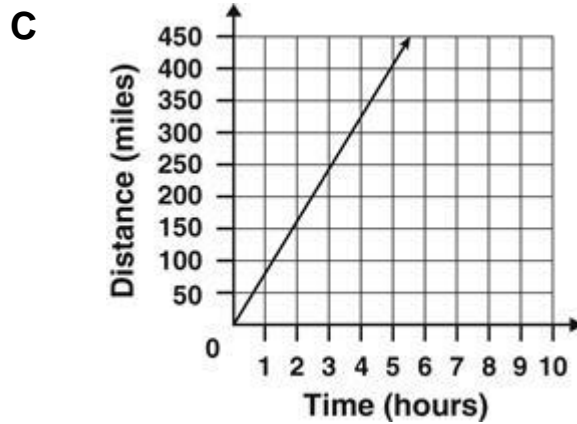
A   line A C   line C
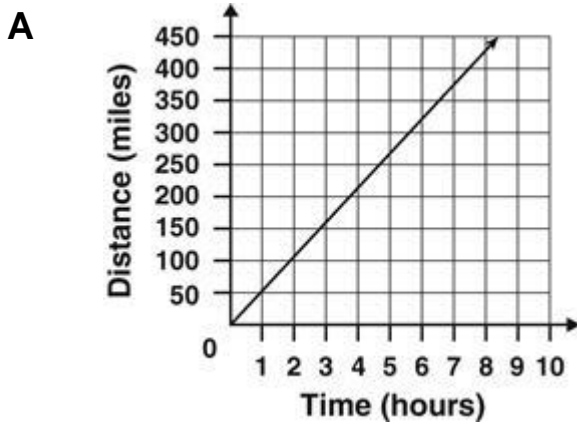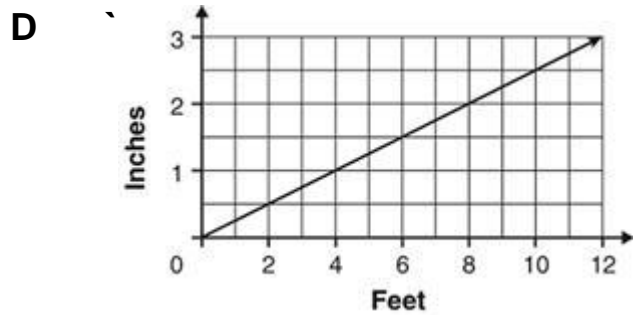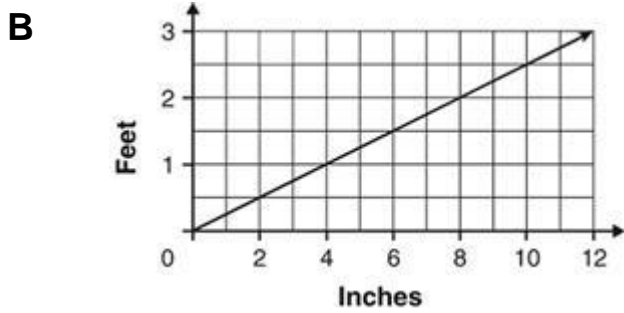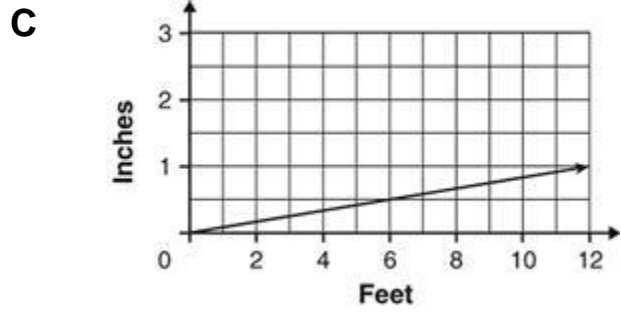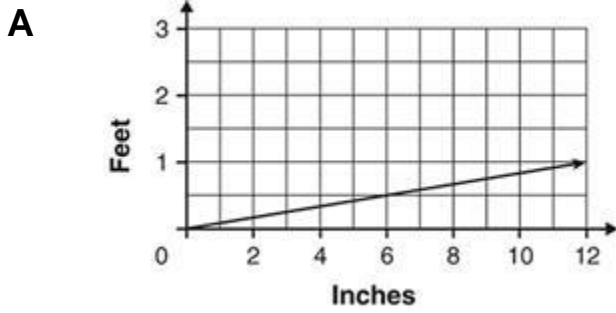B   line B D   line D

17. Alvin's delivery truck traveled 80 miles in 1.5 hours to make a delivery as shown in the chart below.

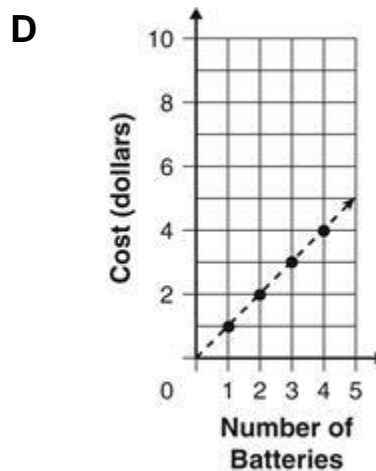| Distance (miles)	Time (hours)
80	1.5
160	3
240	4.5

If his speed remains constant, which graph shows the relationship between his time and distance traveled?

A

Distance (miles) vs Time (hours)

C

Distance (miles) vs Time (hours)

B

Distance (miles) vs Time (hours)

D

Distance (miles) vs Time (hours)

18. Which graph represents the number of inches in a foot?

A

Feet (vertical axis), Inches (horizontal axis)

C

Inches (vertical axis), Feet (horizontal axis)

B

Feet (vertical axis), Inches (horizontal axis)

D

Inches (vertical axis), Feet (horizontal axis)

19. Joe paid $10 for 8 batteries. Which graph represents the cost of the batteries he bought?

A

Cost (dollars) vs. Number of Batteries

C

Cost (dollars) vs. Number of Batteries

B

Cost (dollars) vs. Number of Batteries

D

Cost (dollars) vs. Number of Batteries
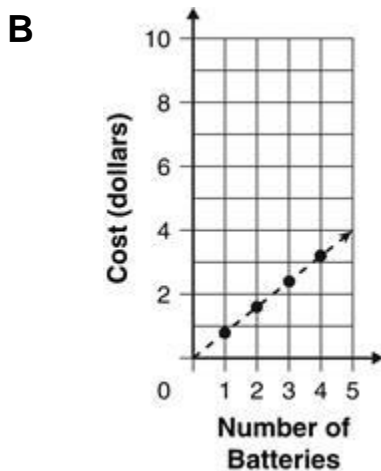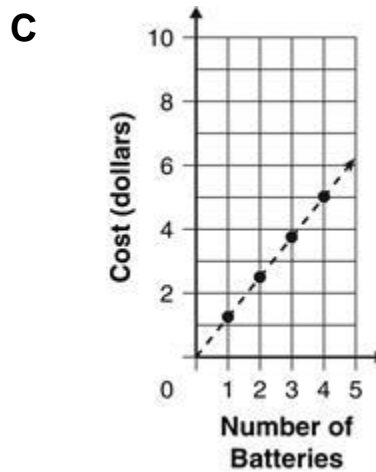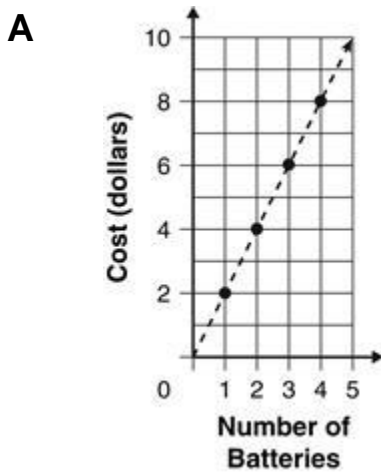
20. The table below shows how much Terrance will earn for working different numbers of hours.

Terrance's Earnings	
Number of Hours Worked	Earnings
1	$6.00
2	$12.00
3	$18.00
4	$24.00

Which graph best represents the relationship in the table?

A

Terrance's Earnings

C

Terrance's Earnings

B

Terrance's Earnings

D

Terrance's Earnings
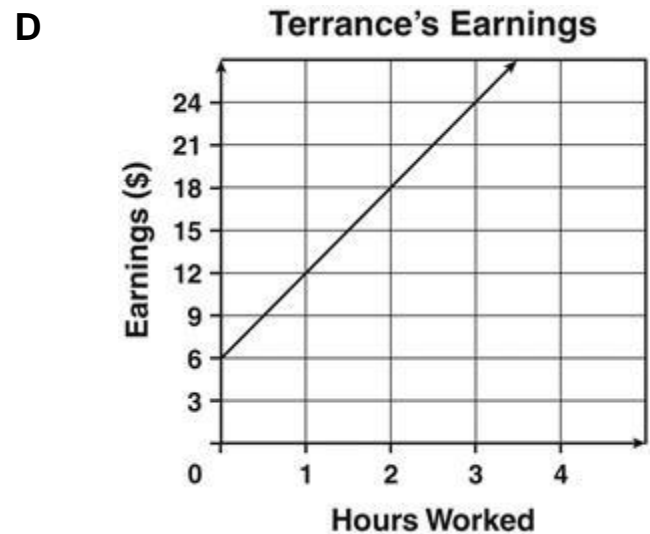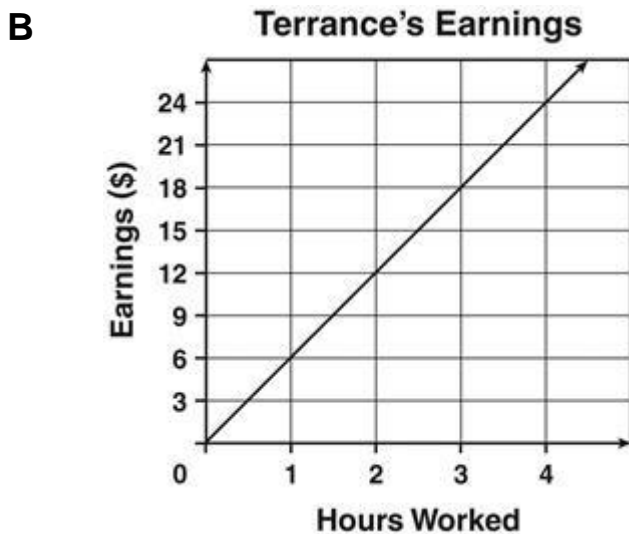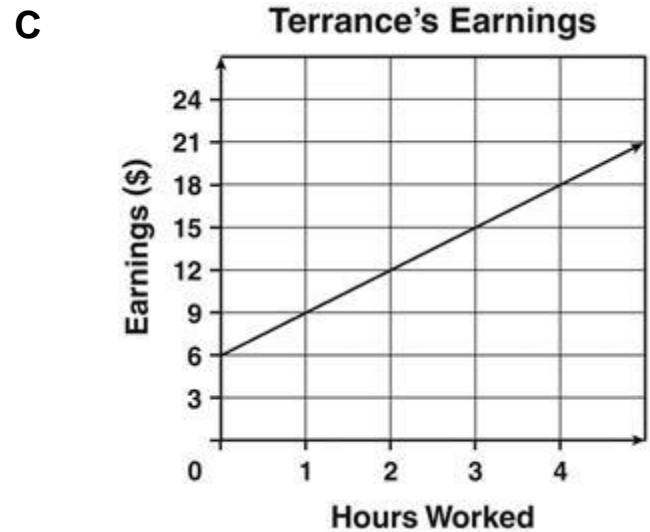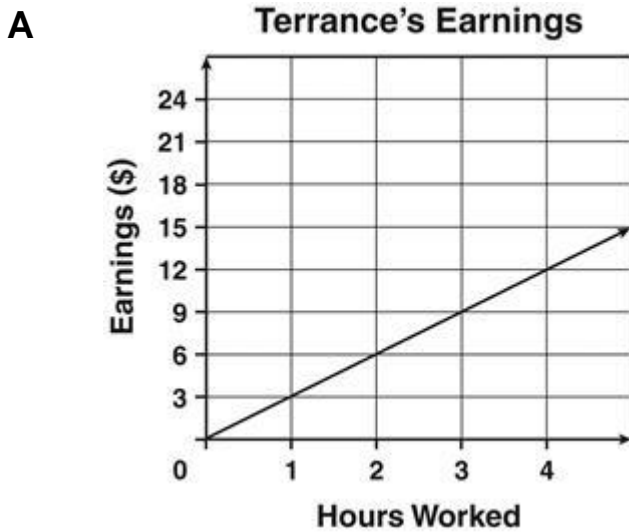
21. Albert wants to buys some pens. He is comparing 4 different packs of pens. The number of pens in each pack and the cost of the pack is shown in the table below.

Pack	Number of Pens	Total Cost
Pack 1	4	$4.80
Pack 2	11	$8.80
Pack 3	4	$3.60
Pack 4	9	$10.80

Which two packs of pens have the same cost per pen?

A Pack 1 and Pack 2

B Pack 1 and Pack 3
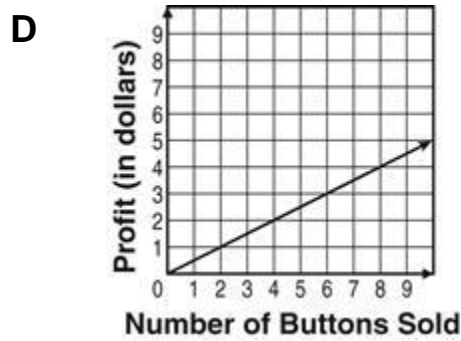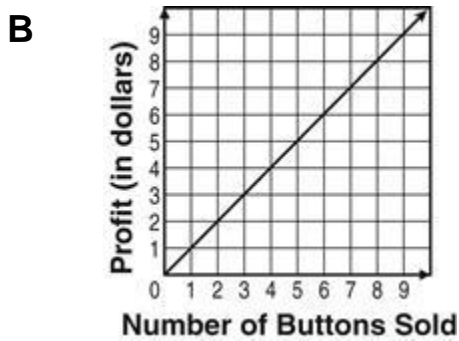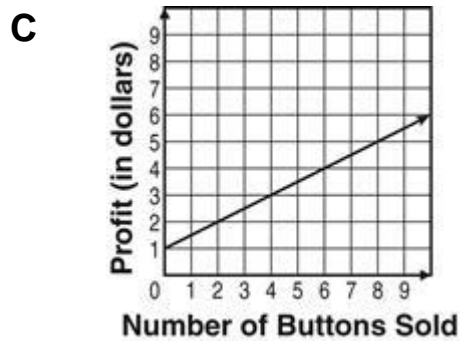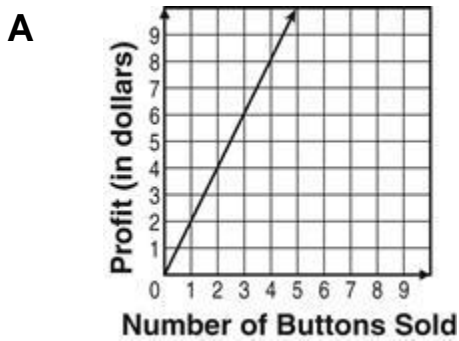
C Pack 2 and Pack 4

D Pack 1 and Pack 4

22. This table shows the amount of profit the cheerleaders will make for each spirit button they sell.

Spirit Button Profit

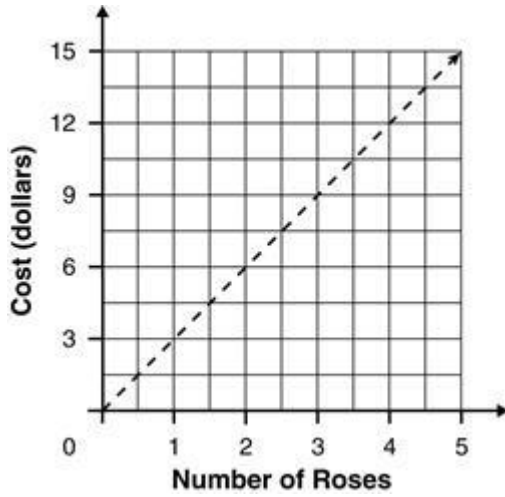| Number of Buttons Sold	Profit (in dollars)
1	2
2	4
3	6
4	8

Which best represents the profits from the spirit button sales?
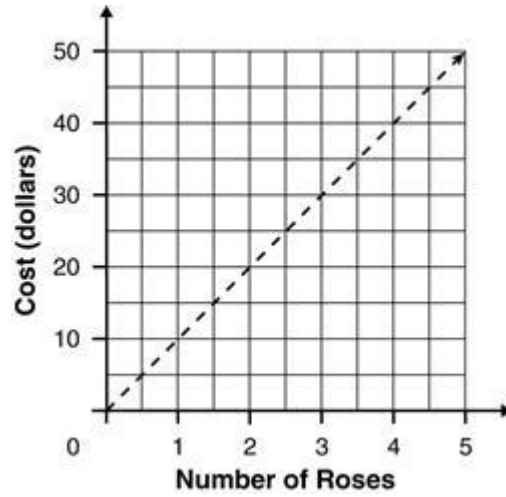
A

C

B

D

23. Mindy's Flower Shop charges $5 per rose. Which graph shows the relationship between the number of roses purchased at Mindy's and the cost for those roses?
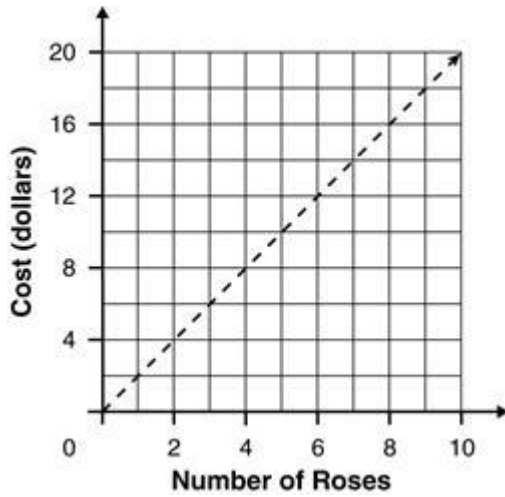
A

Cost (dollars) vs Number of Roses

C

Cost (dollars) vs Number of Roses

B

Cost (dollars) vs Number of Roses

D

Cost (dollars) vs Number of Roses