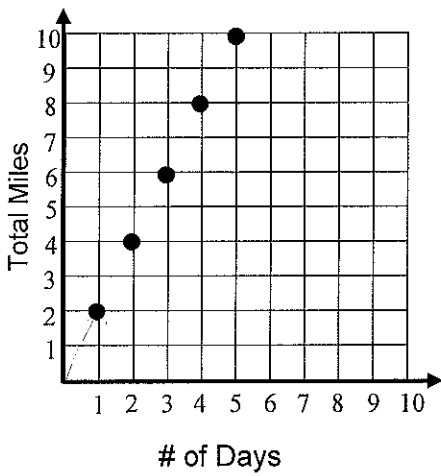Name: Solutions   Date: _____ Period: ____

Given A Graph Practice

1.   Every day Chester runs the same number of miles. The graph below represents the relationship between the number of days and the <u>total</u> number of miles that Chester has run.

| # of Days	Process Column	Total Miles
1		2
2		4
3		6
4		8
5		10
n		$2n$

# of Days

A.   Rule: $2n$ Equation: $T = 2n$

B.   Coefficient: 2 Constant: 0

C.   How many miles does Chester run every day? 2 miles per day

How do you know? the slope (rate of change) is 2.

D.   How many miles will Chester have run after 12 days? 24 miles

$2(12)$

2.   The graph below represents the amount of money Earnest earns mowing lawns.

(10 lawns = $250)

# of lawns
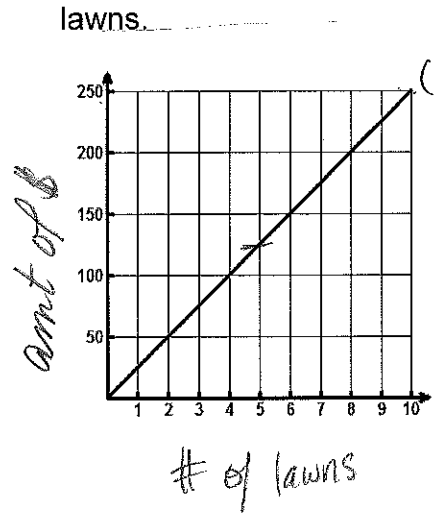
How much does he earn for mowing 5 lawns? $125

How many lawns will he have to mow to earn $300? 12 lawns

increasing $50 for every 2 lawns
if 10 lawns is $250
then 12 lawns is $300.

_D_ 3.   The graph of the line $y = 2x + 3$ is drawn on the coordinate grid below.
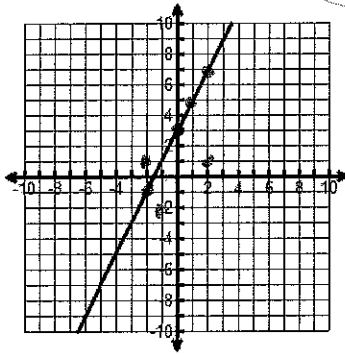
graph the equation
then euse ctrl T
to look at the table.

OR graph the points from
each table on the graph.

Which table of ordered pairs contains only points on this line?

A.
x	y
-2	1
0	3
1	5
3	9

B.
x	y
-1	-2
3	0
5	1
7	2

C.
x	y
2	1
0	3
1	5
2	7

D.
x	y
-2	-1
0	3
1	5
2	7

_A_ 4.   Which line graphed below best represents the table of values for the ordered pair (x, y)?

graph each point on
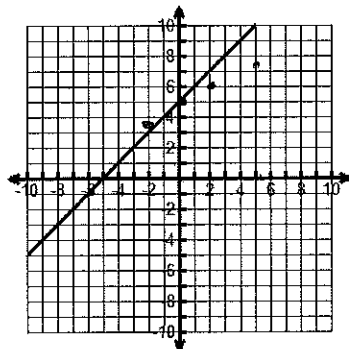the answer choices.

(-3, 3.5)
(0, 5)
(2, 6)
(5, 7.5)

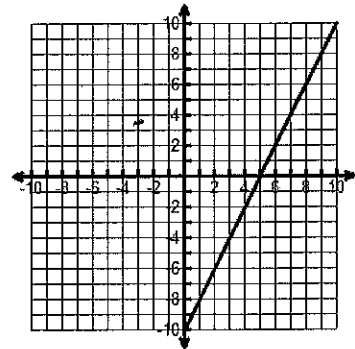| x	y
-3	3.5
0	5
2	6
5	7.5

A.
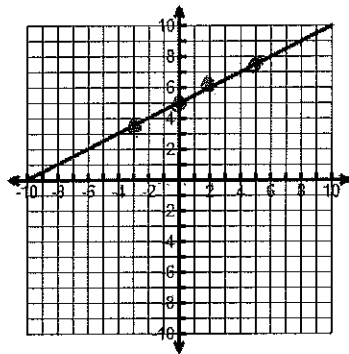
C.
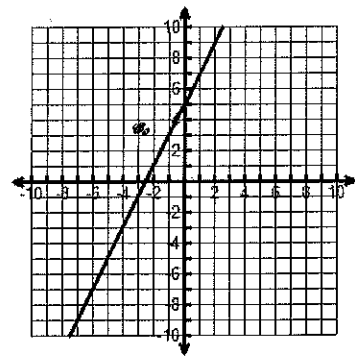
B.

D.

A 5.   Which situation could be represented by the graph below?

A.   If a babysitter charges $6 per hour, how much would she earn for *x* hours?

B.   If it takes 6 hours to spend $1, how long will it take to spend *x* dollars?

C.   If a landscape company charges $30 plus $6 per hour to mow your yard, how much would they charge for a job that takes *x* hours? $30 + 6x$

D.   If it costs $6 to travel 1 miles, how much will it cost to travel *x* miles?

# of miles

(1, 6)   1 hour = $6

(0, 0)

Amount of Money

Number of Hours
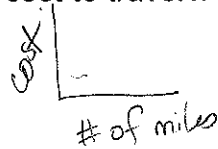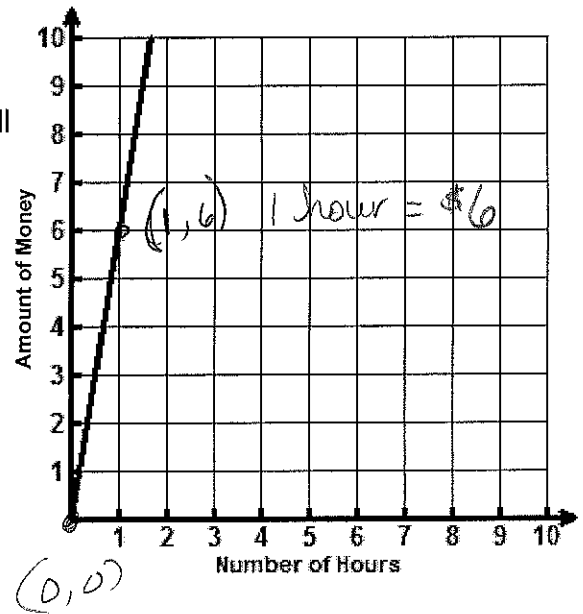
B 6.   The graph below shows the stopping distance for a certain car, depending on the speed of the car when the brakes were applied.

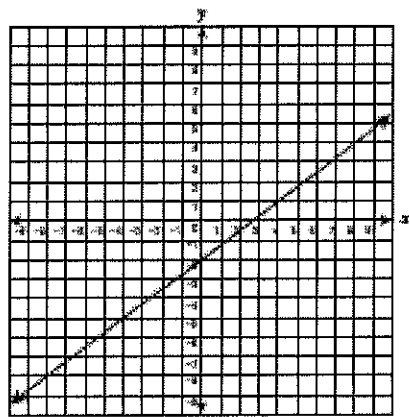**Stopping Distance**

Distance (feet)

Speed (miles per hour)
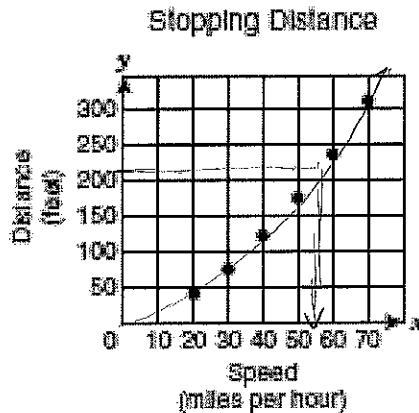
If the car needed 210 feet to stop, approximately how fast was the car traveling?

A.   Between 40 and 50 miles per hour

B.   Between 50 and 60 miles per hour

C.   Between 60 and 70 miles per hour

D.   Between 70 and 80 miles per hour

D___ 7.   The graph of the equation $y = \frac{3}{4}x - 2$ is shown below.

graph the equation

ctrl T for table

Which table of values best represents ordered pairs on the graphed equations?

A.

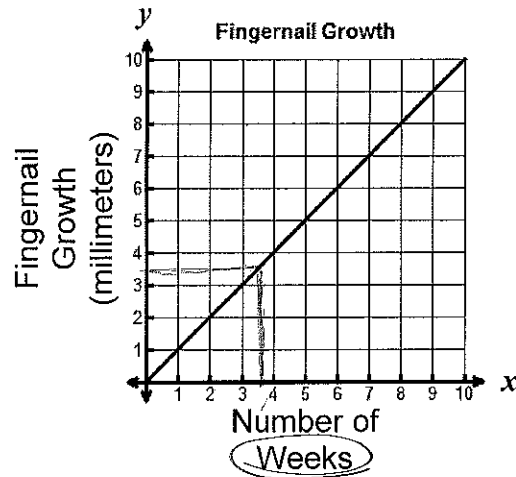| x	y
-8	-8
0	-2
4	-1

C.

x	y
0	-2
1	4
8	4

B.

x	y
-4	-5
4	1
8	5

D.

x	y
-4	-5
0	-2
4	1

Name: _____ Date: _____ Period: ____

β 8.   The graph below shows the growth rate of a human fingernail.

Fingernail Growth

Fingernail Growth (millimeters) vs Number of (Weeks)

Based on the information in the graph, which best represents the number of millimeters a fingernail grows in 25 days? *25 days is about 3.5 weeks*

A.   3.1 mm   C.   4.1 mm

B.   3.6 mm   D.   4.6 mm

A 9.   Which table matches the graph below?
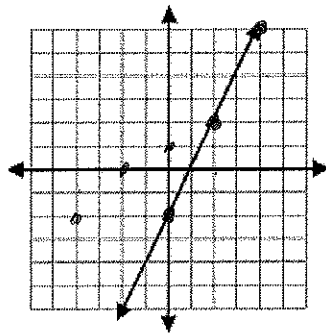
graph the ordered pairs in each answer choice on the graph.

The correct answer has all points on the line.

A.

x	y
0	−2 ✓
2	2 ✓
4	6 ✓

B.

x	y
−2	0 ✗
2	2
6	4

C.

x	y
0	1 ✗
−2	0
−4	−2

D.

x	y
−4	−2 ✗
−3	−4
−2	−6

Name: _____ Date: _____ Period: _____

_C_ 10.   Which coordinates match the graph below?
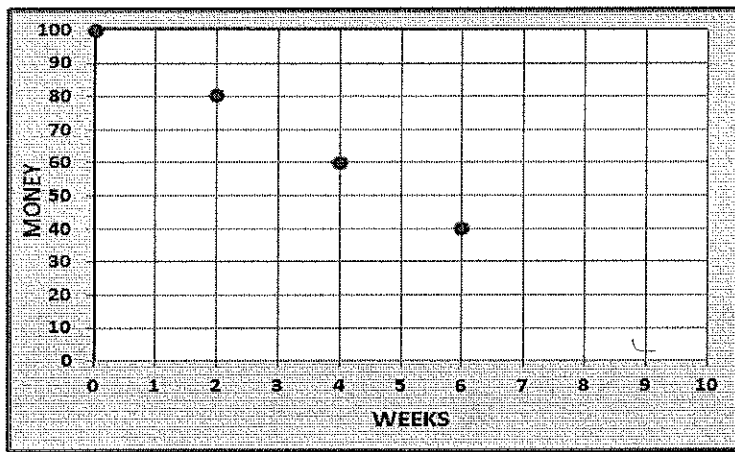
A. (100, 0) (80, 2) (60, 4) (40, 6)

B. (1, 100) (2, 80) (3, 60) (6, 40)

C. (0, 100) (2, 80) (4, 60) (6, 40)

D. (0, 100) (1, 80) (3, 60) (4, 40)

_B_ 11.   Which equation matches the graph below?
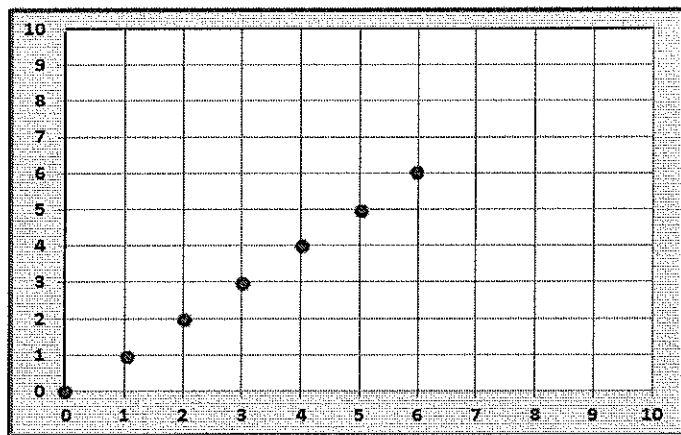
x	y
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7

x and y are equal for every point.

A. $2x = y$

B. $x = y$

C. $x + 1 = y$

D. $x - 1 = y$