SCAVENGER HUNT THROUGH UNIT 3

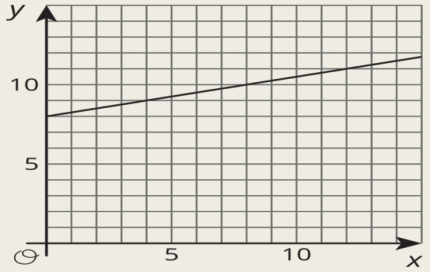
2). WHICH OF THESE POINTS IS ON THE LINE $2X + 7Y = 25$

- (0,0)
- (1,1)
- (2,3)
- (4,5)
- (12.5,0)
- (6,-3)

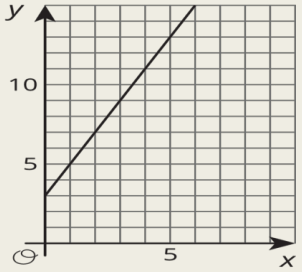
Answer: $465

3). What is the slope of the each line?

A



B



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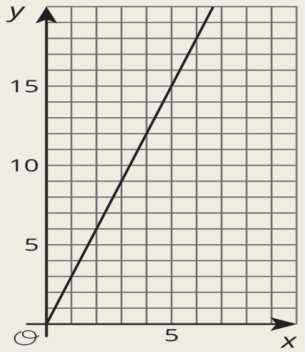
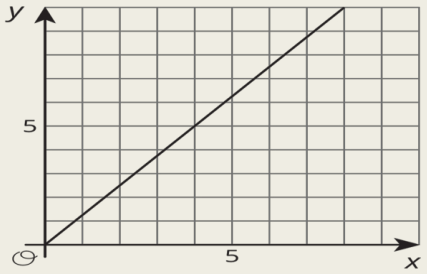


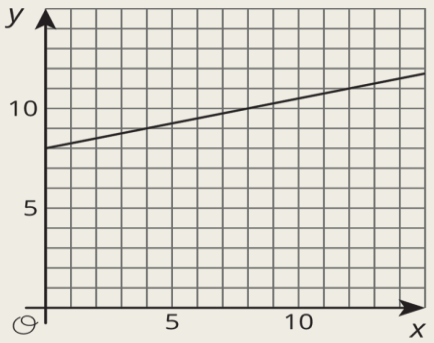
D



Answer. A) 8 B) 3 C) 0 D) 0

4). Write an equation for each line.

A



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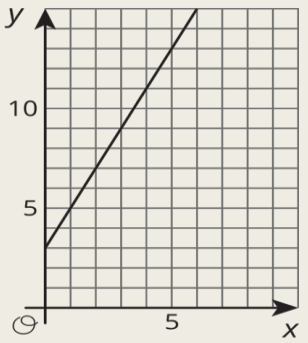

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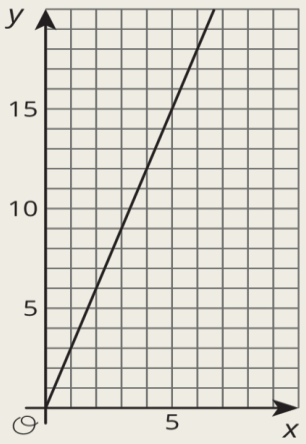
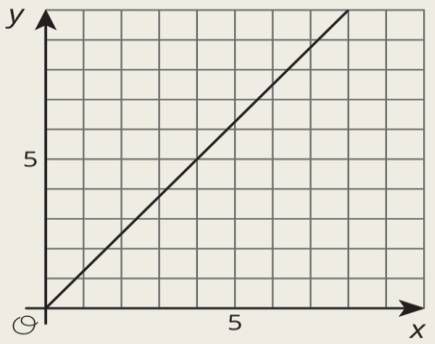


D



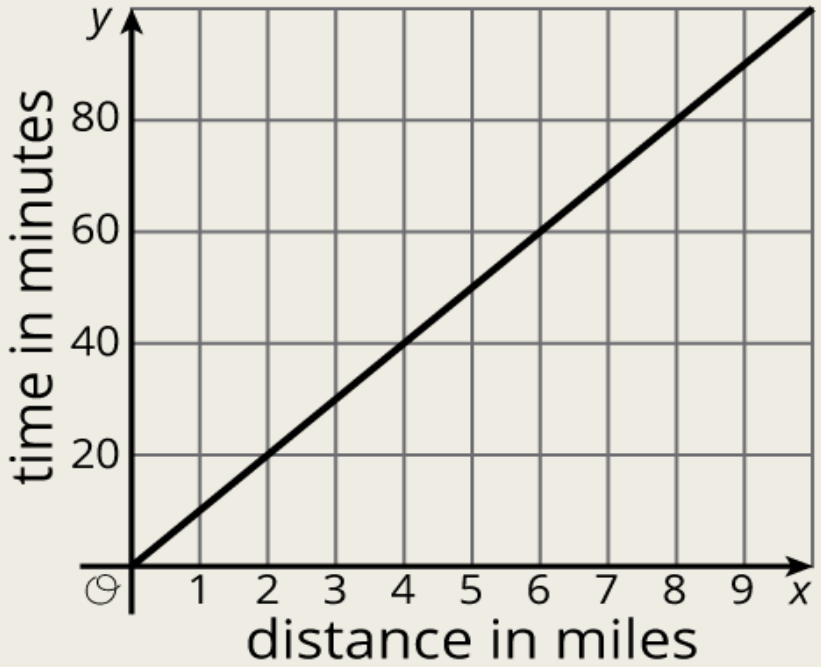
Answer: Pace is 10 min per mile. Equation: t=10d

5). Select all equations that have graphs with the same y-intercept.

A) $y = 3x - 8$

Answer: 15 = .50s + 3a

6). What is the pace of the runner in the following table. Write an equation for the runner in terms of distance (d) with time (t).



Answer: A). $m = \frac{1}{4}$ B). $m = 2$. C). $m = 3$. D). $m = \frac{5}{4}$

7). A CELL PHONE PLAN COSTS $100 TO START. THEN THERE IS A $75 CHARGE EACH MONTH.

Write and equation for the amount paid (y) in months (x).

Answer: It goes through the origin and the graph is a straight line.

8). A cell phone plan costs $150 to start. Then there is a $45 charge each month.

- Write and equation for the cost of x months.
- Evaluate for the cost of 7 months.

Answer: the y-intercept

9). What is the pace of the following runner? Write and equation in terms of distance and time.

	distance (miles)	time (minutes)
row 1	2	16
row 2	4	32
row 3	6	48
row 4	8	64
row 5	10	80

Answer: A solution to the equation

10) It costs $0.10 to download an individual song and $1 to download an album. Jada has $15 to spend downloading music.

Complete the table showing three ways Jada can spend $15 downloading individual songs and albums. Write your answer in coordinates of (s,a)

			Solution (s,a)
row 1	10		(10,)
row 2		10	(,10)
row 3	30		(30,)

Answer: A, D, E, F

11). It costs $0.50 to download an individual song and $3 to download an album. Jada has $15 to spend downloading music.

- *Write an equation relating the number of individual songs (**s**) and the number of albums (**a**) Jada can download.*

Answer: Lin

12). What are the two criteria for a proportional relationship?

Answer: A). $y = \frac{1}{4}x + 8$ B). $y = 2x + 3$ C). $y = 3x$ D). $y = \frac{5}{4}x$

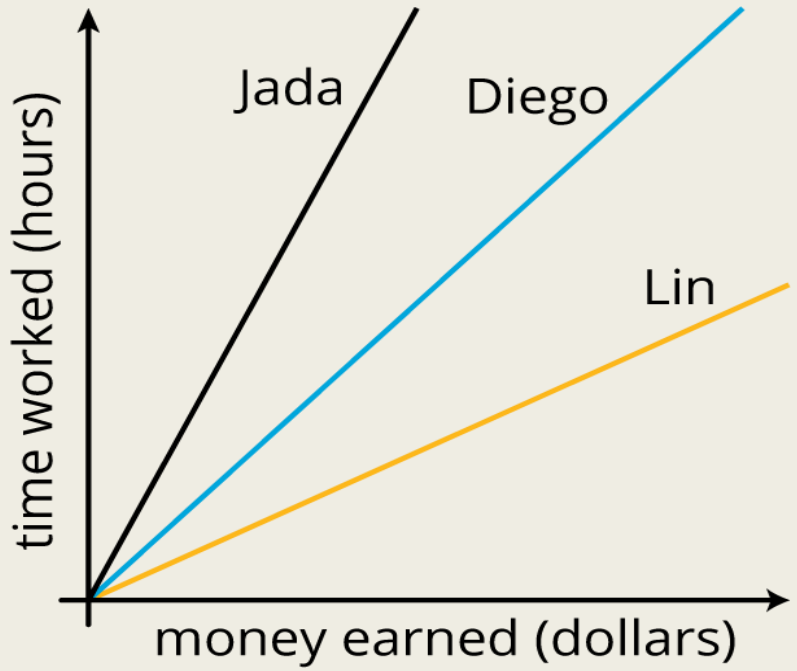
13). What does the b stand for in y=mx + b?

Answer: (10,14) (50,10) (30,12)

14) What does the (x,y) stand for in y=mx+b?

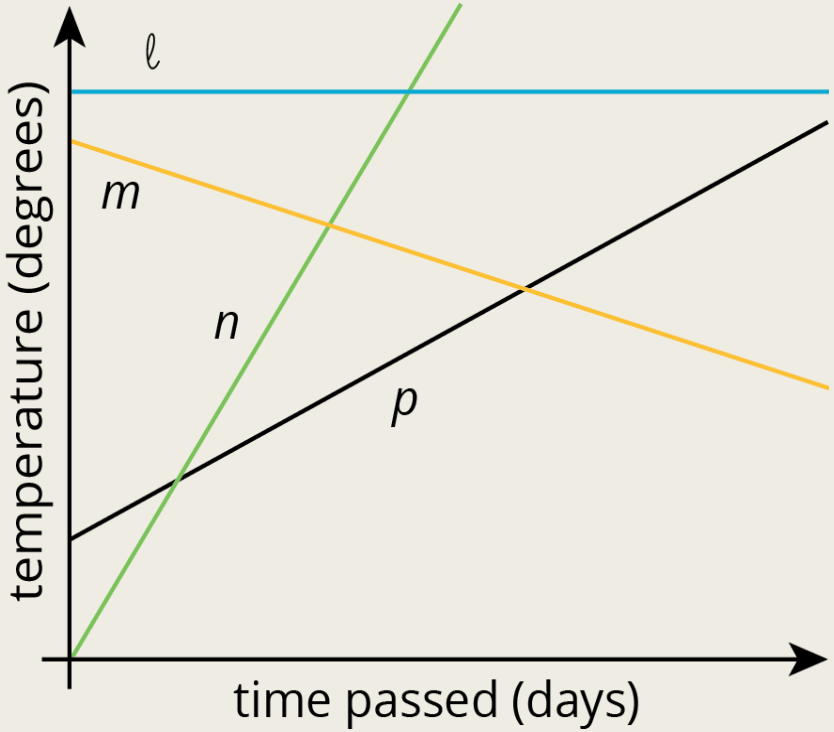
Answer: not true

15).WHO EARNS THE MOST PER HOUR? *MAKE SURE TO READ THE GRAPH CLOSELY!*



Answer: t=8d

16). For two weeks, the highest temperature each day was recorded in four different cities. Lines ℓ, m, n, and p are graphs of the temperature over time in Lubbock, Memphis, New Orleans. and Phoenix. Answer the following question.

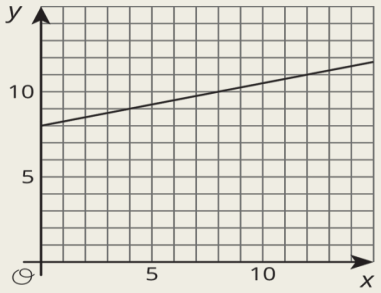


Is it true that the high temperature in Phoenix rose faster than the temperature in New Orleans?

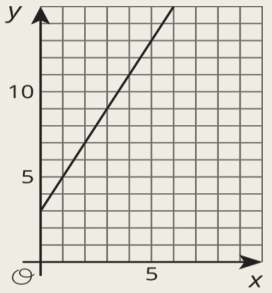
Answer: (2,3) (12.5,0)

17). What is the y–intercept of the each line?

A



B



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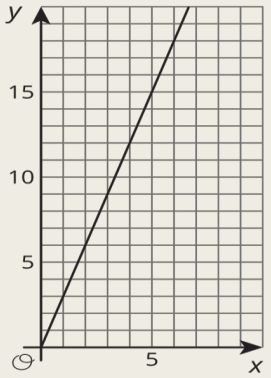
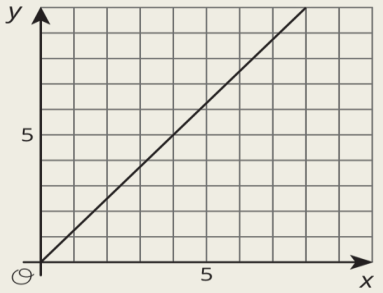


D



Answer: y=75x + 100