FINAL REVIEW TOPIC 1: DOMAIN OF A FUNCTION (F-IF.5)

Definitions

- Function: _____
- Domain: _____
- Set: _____
- Integers: _____
- Real Numbers: _____

5 **A store sells nuts in bags of four different sizes: 1, 2, 3, and 5 pounds. The cost of each bag of nuts is a function of the weight of the nuts.**

- 1 pound of nuts costs $7.
- 2 pounds of nuts costs $13.
- 3 pounds of nuts costs $18.
- 5 pounds of nuts costs $23.

What is the domain of the function?

A. The set {7, 13, 18, 23}

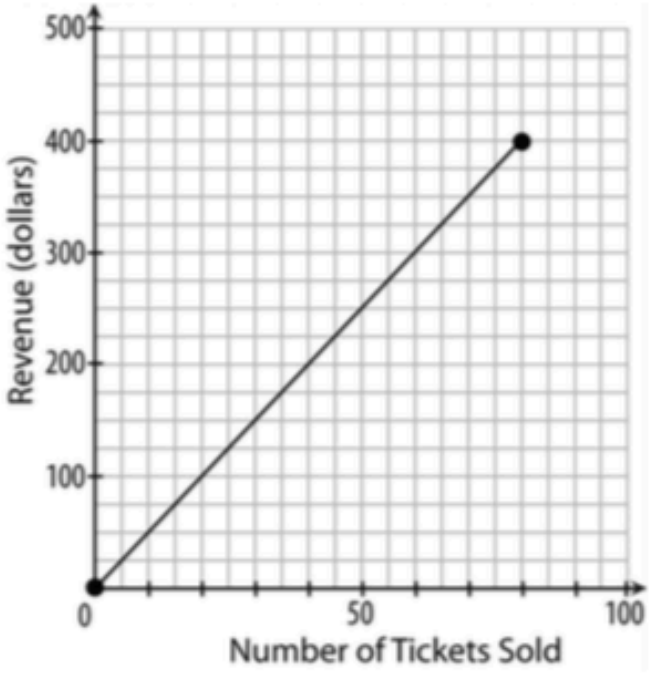
B. The set {1, 2, 3, 5}

C. All real numbers between 7 and 23

D. All real numbers between 1 and 5

❑ **Read the problem:** Highlight ALL the key words in the problem. ❑ **Think about the problem:** What is the problem really asking: _____ _____ ❑ **Make a plan:** What strategy / strategies will you use? _____ _____	❑ **Solve the problem:** Show all your work. ❑ **Answer the question:** strike out answers that don't make sense and select answer.

6 **To raise money, a school band is selling tickets to a breakfast. The graph on the coordinate grid below shows the functional relationship between the number of tickets sold and the revenue.**



What is the domain of the function?

A. integers from 0 to 80

B. real numbers from 0 to 100

C. integers from 0 to 400

D. real numbers from 0 to 500

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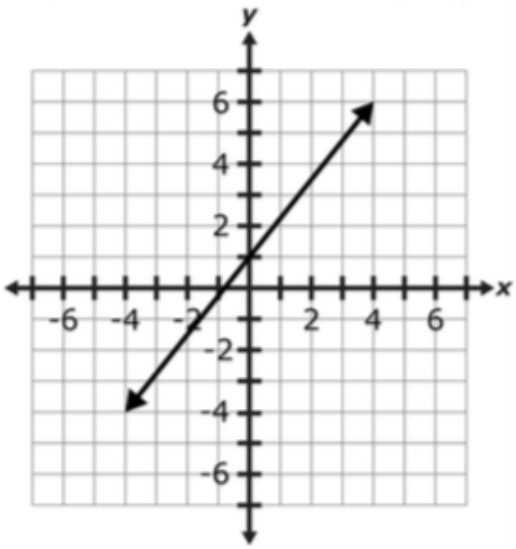
FINAL REVIEW TOPIC 2: LINEAR FUNCTIONS (A-REI.D.10, F-IF.7A, F.IF.B.4)

Recall

- A solution for a line $y = mx + b$ is a _____ on the line that makes the equation true/false.
- A line call be written as _____ where m is the _____/_____ and y _____/_____.
- Graph line in slope-intercept form $y = mx + b$ use *m*/_____ $= \frac{rise}{run}$ and *b*/_____= point on y-axis.
- Graph line in standard form $ax + by = c$ use _____ = (#, 0) point on x-axis and _____ = (0, #) point on y-axis

9 **The graph of $y = \frac{5}{4}x + 1$ is shown below. The coordinate $(0, y)$ is a solution of the equation. Given the x-value of 0, what is the value of the y-coordinate for the coordinate $(0, y)$?**



y = ☐

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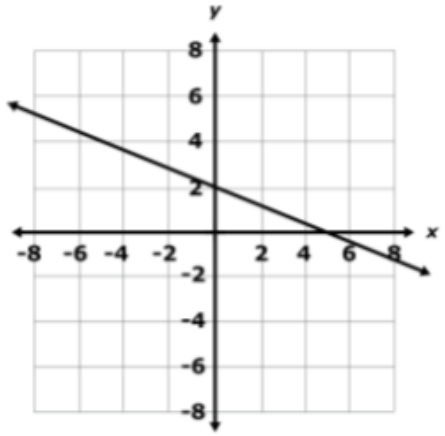
10 **An equation is represented by the graph below.**



Which of the following ordered pairs is MOST LIKELY a solution to the equation represented by the graph?

A. (2, 0)

B. (5, 2)

C. (6, −10)

D. (10, −2)

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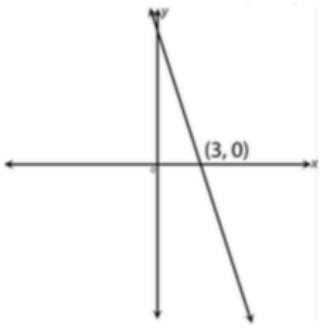
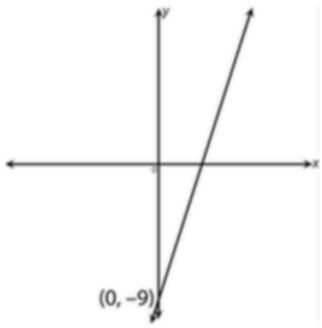
7 **Which of these correctly shows the graph of $y = 3x - 9$ with the y-intercept labeled?**

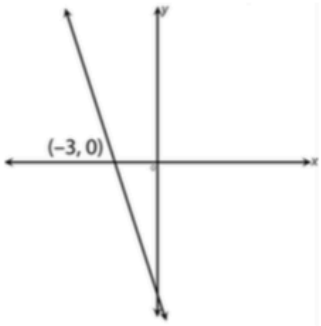
A.



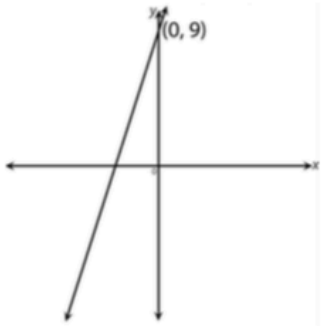
C.



B.



D.



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