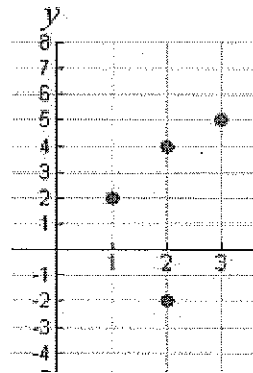


8.F.1 Understand that a function is a rule that assigns to each input exactly one output.

Which of the relations below is not a function?

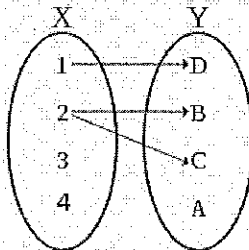
- a) (1,3) (2,4) (3, -3)
- b) (1,3) (2,3) (2,4)**
- c) (0,1/2) (1,1/4) (2,1/8)
- d) (3,-3) (4,-4) (5,-5)



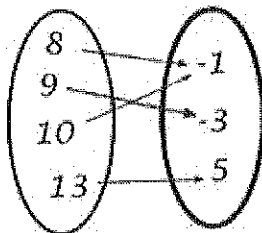
Which point needs to be removed from the graph to make it a function?

- a) (1,2)
- b) (2,2)
- c) (2,4)**
- d) (3,5)

Mapping Diagram A



Mapping Diagram B



Which statement is true?

- a) Both represent a function
- b) Neither represent a function
- c) Only A represents a function
- d) Only B represents a function**

Which of the following is NOT a function?

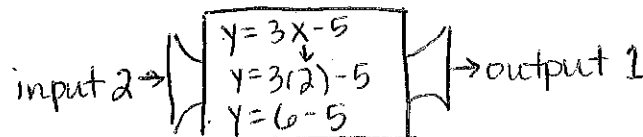
- a) Domain is the set of soccer team player's names, range is the positions they have played**
- b) Domain is the names of the football players, range is their ages
- c) Domain is the basketball team's names, range is their genetic code
- d) Domain is the volleyball team's names, Range is their school ID number

A student is working with the two functions shown:

- $y = 3x - 5$
- The second function is the set of all values when the input is multiplied by 5.

Part A: The student does not understand what a function is in terms of inputs and outputs. Write an explanation for the student and draw a function machine diagram of your own design.

A function is a relation or rule that matches each input with only one output.



Part B: Which function has the greater y -intercept? Show your work and explain your answer.

The second function has the greater y -intercept. It's initial value is 0, while the first function begins at -5. $0 > -5$

8.F.1 Understand that a function is a rule that assigns to each input exactly one output.

Which of the following statements must be true of a function?

- A. Every output value corresponds to only one input value.
- B. Every input value corresponds to only one output value.
- C. Each input is mapped to the same output.
- D. No output values are repeated.

Which of the following represents a function?

- A. $(-1, 15), (0, 10), (0, 5), (2, 5), (5, -5)$
- B. $(-7, -1), (-7, 0), (-7, 1), (-7, 2), (-7, 3)$
- C. $(-5, 10), (-3, 6), (0, 0), (3, 6), (5, 10)$
- D. $(-8, 3), (-4, 3), (0, 3), (0, 5), (4, 5)$

EACH OF THE TABLES BELOW SHOWS A RELATION. WHICH IS ALSO A FUNCTION?

A.

Input (x)	1	5	5	7	9
Output (y)	2	8	9	13	21

C.

Input (x)	3	7	6	10	15
Output (y)	0	0	0	0	0

B.

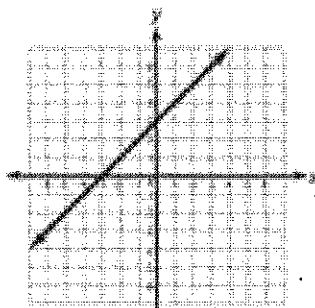
Input (x)	7	8	9	8	11
Output (y)	3	5	7	6	9

D.

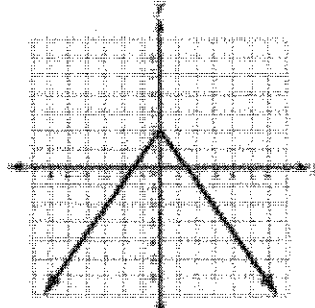
Input (x)	1	1	1	1	1
Output (y)	2	3	4	5	6

Which of these does not represent a function?

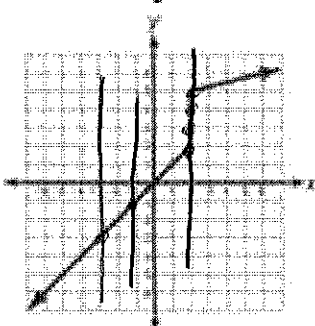
A



B



C



D

