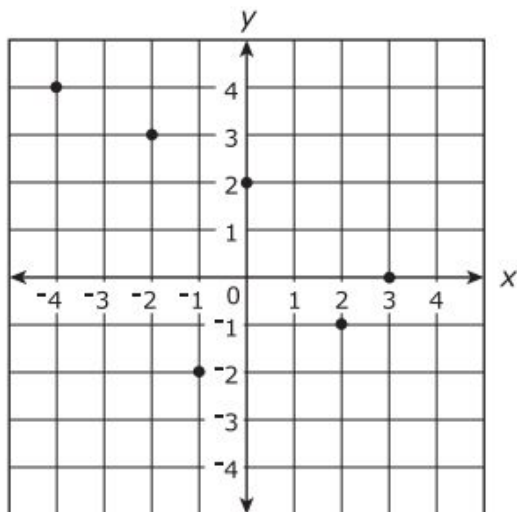


PARCC Assessment Item Illustrating 8.F.A.1

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The graph represents y as a function of x .



Which additional point can be plotted so that the graph continues to represent y as a function of x ?

- A. (0, 1)
- B. (2, 2)
- C. (3, 4)
- D. (4, 2)

Answer Key

D

Elaboration on Alignment

Standard 8.F.A.1 establishes the definition for function, setting the groundwork for other grade 8 work with functions and future work in the domain in high school. This item

measures the fundamental understanding of a function as a rule that assigns each input to exactly one output. As noted in the Functions progression document (http://commoncoretools.me/wp-content/uploads/2013/07/ccss_progression_functions_2013_07_02.pdf), instruction that supports this understanding should be grounded in students asking themselves “Does each element of the domain correspond to exactly one element in the range?” In other words, students who have been well taught on this topic might approach a problem like this by saying such things as, “The input 0 cannot be assigned to 1 because it is already assigned to 2 by this function’s rule.”

Learn More

Learn more with the [MATH Assessment Item Alignment Modules](#) at www.achievethecore.org.