



DEPARTMENT OF EDUCATION

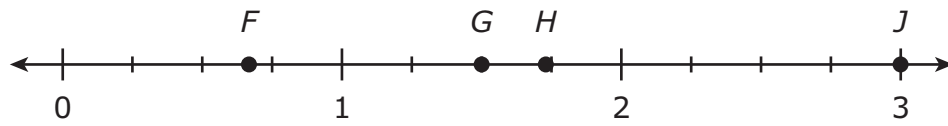
Leading the Drive to Top 5!

PAWS Mathematics Grade 8

Released Items With Data

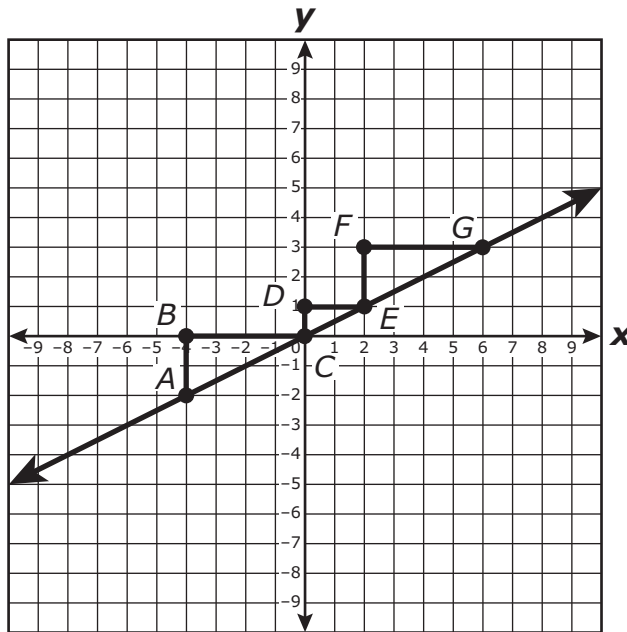
2014

00 Which point on the number line shown best represents $\sqrt{3}$?



- A) Point F
- B) Point G
- C) Point H
- D) Point J

- 00 Triangles ABC , CDE , and EFG are shown on the coordinate grid.



Which ratio represents the value of the slope of \overleftrightarrow{AG} ?

- A) $\frac{AB}{EF}$
- B) $\frac{CD}{DE}$
- C) $\frac{AE}{EG}$
- D) $\frac{GF}{FE}$

- 00** Two functions are given, one as a verbal description and one as an equation.

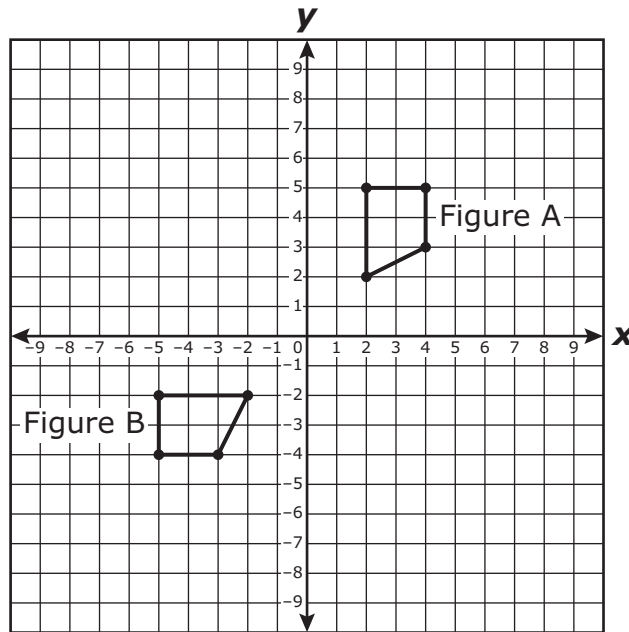
Function 1
The perimeter of a square, y , is equal to the length of one side of the square, x , times 4.

Function 2
$y = 2x + 5$

Which of the following can be concluded about the two functions?

- A) The rate of change for Function 1 is less than the rate of change for Function 2.
- B) The rate of change for Function 1 is greater than the rate of change for Function 2.
- C) For all positive inputs of x , the output for Function 1 is less than the output for Function 2.
- D) For all positive inputs of x , the output for Function 1 is greater than the output for Function 2.

- 00** Two figures are shown on the coordinate grid.



Which sequence of transformations would map Figure A to Figure B?

- A) Rotate Figure A 90° clockwise about the origin and reflect the resulting figure across the x-axis.
- B) Rotate Figure A 90° clockwise about the origin and translate the resulting figure 7 units to the left.
- C) Rotate Figure A 90° counterclockwise about the origin and translate the resulting figure 6 units down.
- D) Rotate Figure A 90° counterclockwise about the origin and reflect the resulting figure across the x-axis.

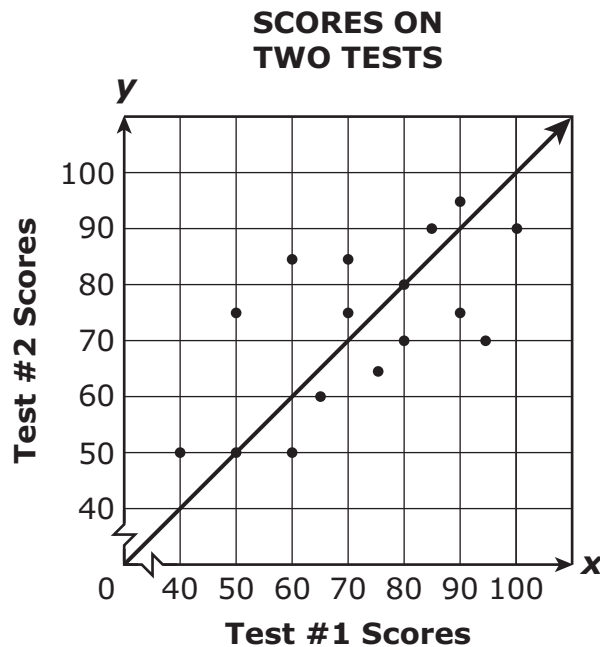
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An artist created a sculpture composed of 15 cones made out of concrete. Each cone was 7 inches tall and had a radius of 3 inches. Which value is closest to the total amount of concrete that the artist used to make the sculpture?

- A) 165 cu in.
- B) 247 cu in.
- C) 660 cu in.
- D) 990 cu in.

00

The scores of 16 students on two of their math tests are shown in the scatter plot. A line has been drawn to show where the students' scores on both tests would be the same.



Which statement represents a valid conclusion that is best supported by this scatter plot?

- A) The majority of students had a lower score on Test #2 than Test #1.
- B) The majority of students had a higher score on Test #2 than Test #1.
- C) The majority of students had a score that is less than or equal to 70 on both tests.
- D) The majority of students had a score that is greater than or equal to 70 on both tests.