19. If the inequality $10 \geq x \geq 5$ is graphed on a number line, what is the representation?

    **A**  line segment
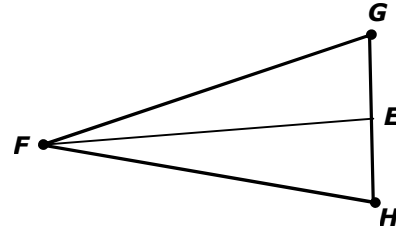
    **B**  line

    **C**  point

    **D**  ray

20. A triangular prism has a right triangle base. The base has legs of 4 units and 5 units. The prism is 8 units tall. If the leg that is 5 units long is increased by 2 units, how will the volume of the new prism compare to the volume of the original prism?

    **F**  The volume of the new prism will be 2 cubic units more than the volume of the original prism.

    **G**  The volume of the new prism will be 22 cubic units more than the volume of the original prism.

    **H**  The volume of the new prism will be 80 cubic units more than the volume of the original prism.

    **J**  The volume of the new prism will be 32 cubic units more than the volume of the original prism.

21. The sum of the measures of the interior angles of a regular polygon with 10 sides will be −

    **A**  $1,440°$

    **B**  $144°$

    **C**  $360°$

    **D**  $1,800°$

22. $\overrightarrow{FE}$ is the bisector of angle $F$ in $\triangle GHF$.



Which statement is true for all triangles $GHF$ and angle bisector, $\overrightarrow{FE}$ ?

    **F**  $\overrightarrow{FE}$ will bisect $\overline{GH}$

    **G**  $\angle GFE \cong \angle HFE$

    **H**  $\triangle FGE \cong \triangle FHE$

    **J**  $\overline{FE}$ will be an altitude for $\triangle GHF$.

23. The coordinates of the vertices of one side of a rectangle are $(-2, 6)$ and $(5, -8)$. Which of the following describes the slope of the adjacent side of the rectangle?

    **A**  $\dfrac{2}{3}$

    **B**  $\dfrac{3}{2}$

    **C**  $-\dfrac{1}{2}$

    **D**  $\dfrac{1}{2}$

24. Which of the following is *not* an example of a set of Pythagorean triples?

    **F**  3, 4, 5

    **G**  5, 6, $\sqrt{61}$

    **H**  5, 12, 13

    **J**  15, 20, 25