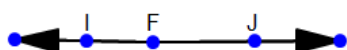


Name: _____

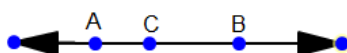
Distance, Segment, and Rays

Use the segment addition postulate to write an equation for the segment.

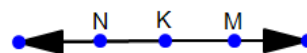
1)



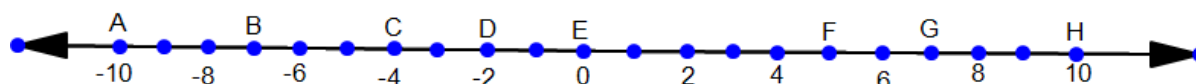
2)



3)



Find the indicated distance using the given number line.



4) AC

5) CF

6) EB

7) GF

8) HD

9) GA

10) DA

11) BH

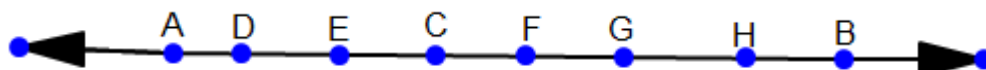
For the given coordinate of G and H, find GH.

12) G: -7; H: 5

13) G: $4\frac{4}{5}$; H: 8

14) G: -6.2; H: -2.5

Give three names for the indicated ray.



15) Endpoint C containing H.

16) Endpoint D containing E.

17) Endpoint B containing A.

Use the given information, to answer each of the following questions

18) A, B, and C are three collinear points such that B is between A and C.

$$AB = \frac{3}{4}BC \text{ and } AC = 28. \text{ Find } AB.$$

19) P, Q, and R are three collinear points such that Q is between P and R.

$$PQ = \frac{4}{7}QR \text{ and } PR = 33. \text{ Find } QR.$$

20) For \overline{AB} , the coordinate of A is -6 and $AB = 7$. Find all possible coordinates of point B.

21) A, B, and C are three collinear points such that B is between A and C.

$$AB = \frac{3}{7}AC \text{ and } AB = 9. \text{ Find } BC.$$

22) Point T is on \overline{MG} , but T is not in between points M and G. $MG = \frac{5}{4}GT$ and $MT = 18$. Find MG.

23) For \overline{GH} , the coordinate of G is $2x - 6$ and the coordinate of H is $x - 5$.

Find the coordinate of G if $GH = 6$.