BECA /	/ Dr.	Huso	on / Geo	omet	ry
Unit 1:	Segm	ents,	length,	and	area
19 Sept	2022				

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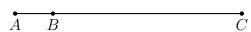
Name:

1.8	Extension:	Area	and	perimeter	
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1. A square is partitioned into two rectangles. rectangles is 36. Find the area of the square.	The s	um of the perimeters of the two

2. Given \overline{ABC} , $AB = \frac{2}{3}$, and $AC = 3\frac{1}{3}$.

Find BC.



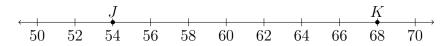
3. Given \overline{DEFG} , $DE = 3\frac{1}{4}$, $EF = 6\frac{1}{4}$, and $FG = 1\frac{3}{4}$. (diagram not to scale) Find DG, expressed as a fraction, not a decimal.



4. Given \overline{FGHI} , $FG = 8\frac{1}{6}$, $GH = 12\frac{1}{3}$, and $HI = 5\frac{1}{2}$. (diagram not to scale) Find FI.

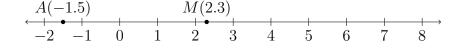


5. Given \overrightarrow{JK} as shown on the number line.



What is the midpoint between the points J and K?

6. The point M(2.3) is the midpoint of segment \overline{AB} . Given A(-1.5), find the value of B. Mark and label it below.



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7. Given \overrightarrow{RS} as shown on the number line, with R = -2.8 and S = 4.4.



The points T and U trisect \overline{RS} . Find their values, and mark and label them on the number line.

- 8. Given \overline{PQR} , with $PQ = \frac{1}{2}x + 4$, QR = x + 3, and PR = 2x + 5. Find PR.
- 9. Given \overline{PQR} , with PQ = 4x 4, QR = 2x + 3, and PR = 5x + 9. Find PR.
- 10. Given \overrightarrow{PQ} as shown on the number line. Divide segment \overline{PQ} into five congruent segments by marking and labeling the points R, S, T, and U on the numberline.

