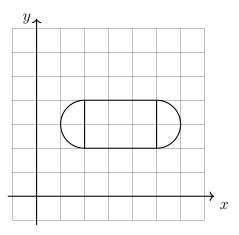
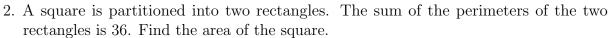
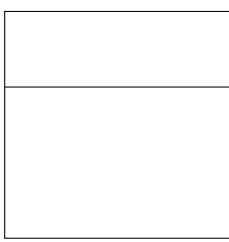
$19~{\rm Sept}~2022$ 

## 1.8 Classwork: Area of rectangles, triangles, parallelograms

1. Find the area of the shape shown below composed of a rectangle and two semi-circular caps. Leave your answer as an exact value in terms of  $\pi$ .







3. Find the circumference of the earth's orbit around the sun.

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

Find BC.



5. 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.



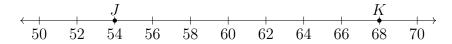
6. Given  $\overline{FGHI}$ ,  $FG = 8\frac{1}{6}$ ,  $GH = 12\frac{1}{3}$ , and  $HI = 5\frac{1}{2}$ . (diagram not to scale) Find FI.

Unit 1: Segments, length, and area

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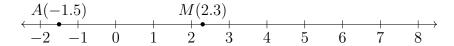
7. Given  $\overrightarrow{JK}$  as shown on the number line.



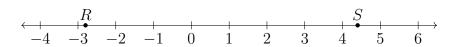
What is the midpoint between the points J and K?

8. 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.

Name:



9. 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.

10. Given  $\overline{PQR}$ , with  $PQ = \frac{1}{2}x + 4$ , QR = x + 3, and PR = 2x + 5. Find PR.