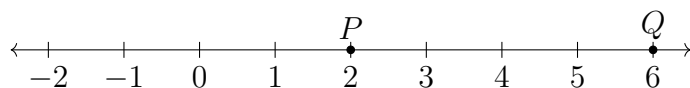


☐ I brought a calculator to class today.

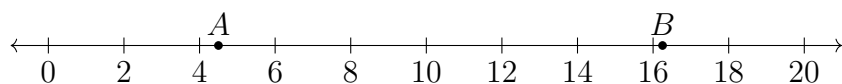
### 1.3 Do Now: Area and length calculations

1. What is the distance between  $P$  and  $Q$  on the number line?

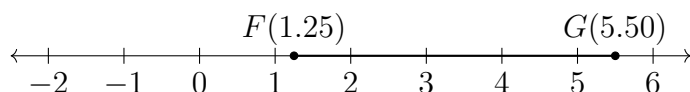


$PQ =$

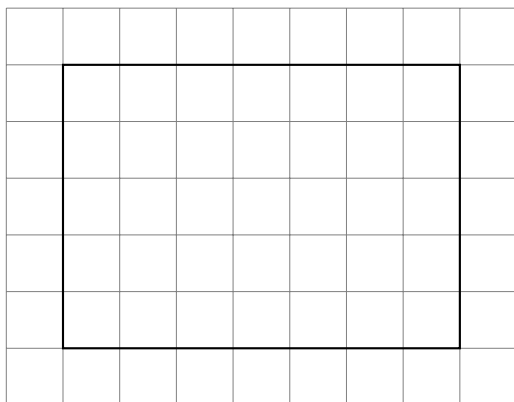
2. Points  $A = 4\frac{1}{2}$  and  $B = 16\frac{1}{4}$  are shown below. Find  $AB$ .



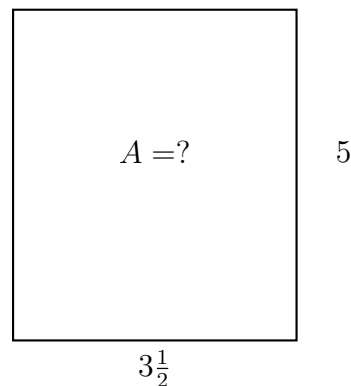
3. What is the distance on the number line between the points  $F$  and  $G$ ?



4. Find the area  $A$  and perimeter  $P$  of the shape shown below. Assume the grid is in inches.



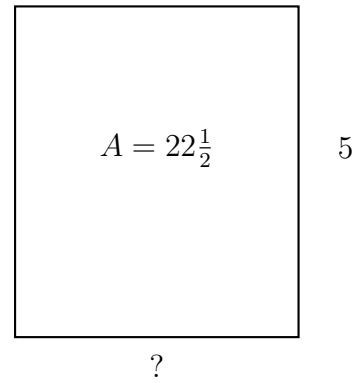
5. Find the area of a rectangle with length  $l = 3\frac{1}{2}$  and width  $w = 5$ . Use the formula for the area of a rectangle:  $A = l \times w$



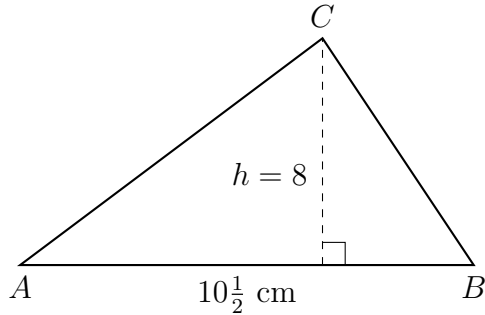
2

6. Find the length of the base of a rectangle with area  $A = 22\frac{1}{2}$  and height  $h = 5$ , expressed as a fraction. Start with the form (use  $b$  or  $x$ ):

$$A = b \times h = 22\frac{1}{2}$$



7. Find the area of  $\triangle ABC$ . The altitude  $h$  of the triangle is 8 centimeters and the base  $AB = 10\frac{1}{2}$  cm. (diagram not to scale)



8. Find the length of the base of a triangle with area  $A = 35$  and height  $h = 10$ . Start with the form (use  $b$  or  $x$ ):

$$A = \frac{1}{2} \times b \times h = 35$$

