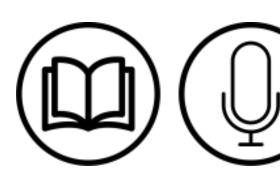


Measure line segment



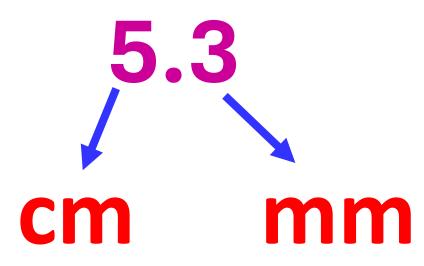


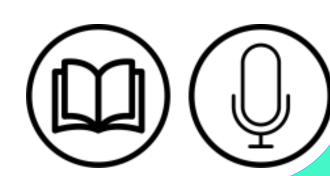
Rules:



- Note the beginning of the line and ending of the line, you want to measure.
- The beginning must be in 0.
- Look at the other end of the line and note where it falls on. That number is your measurement in centimeter.
- ◆ If the end of the line doesn't land exactly on a centimeter mark, there are smaller markings between the centimeters called millimeters. Count the number of mm past the whole cm mark.
- Write down the length of the line in centimeter. Including any millimeter (Divide 10)if you used them.

Example:

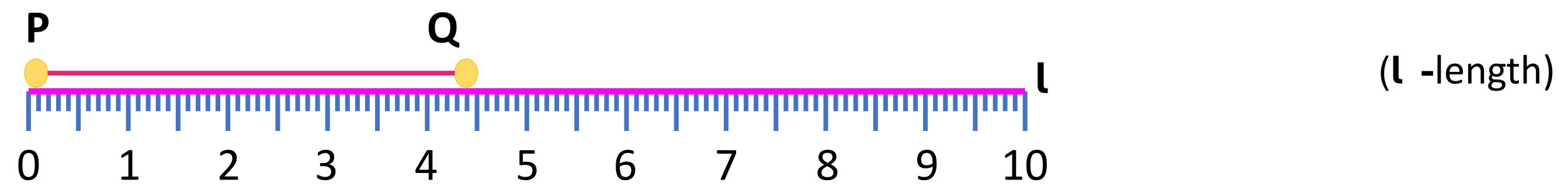






Measure the length PQ?





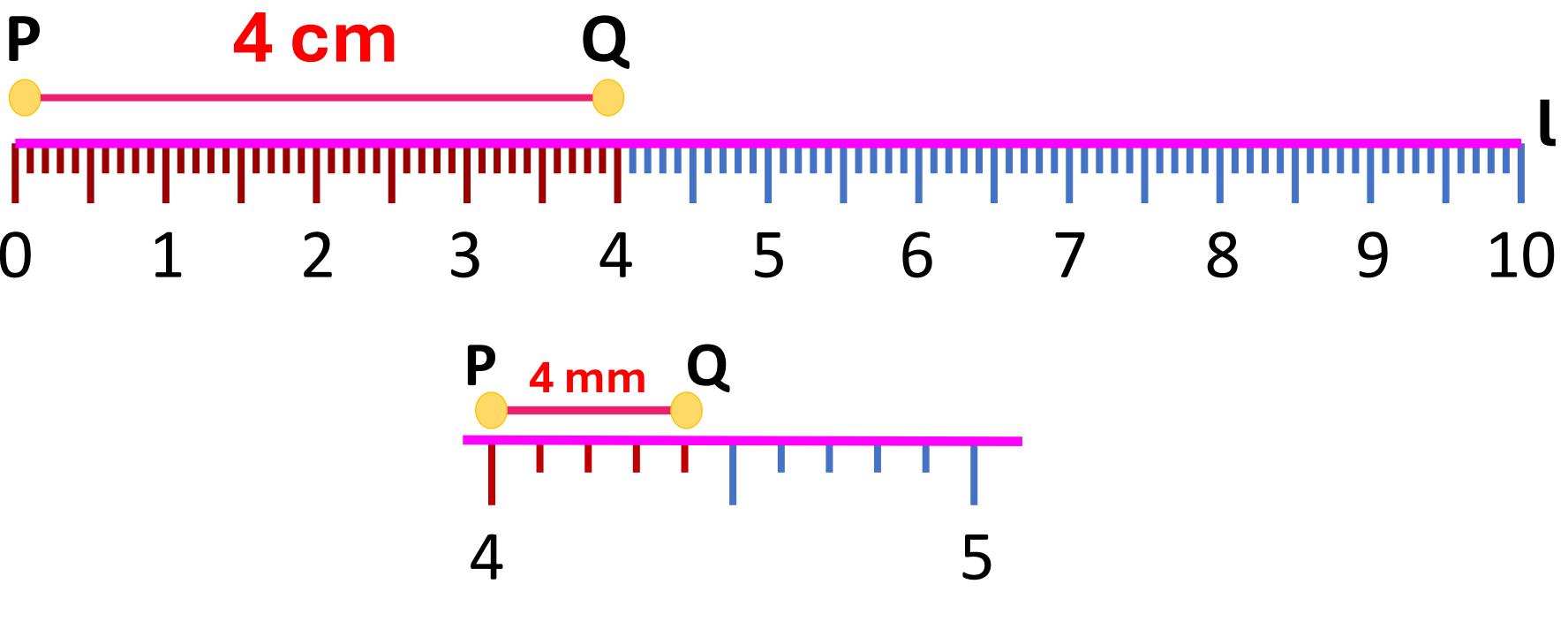
Solution:

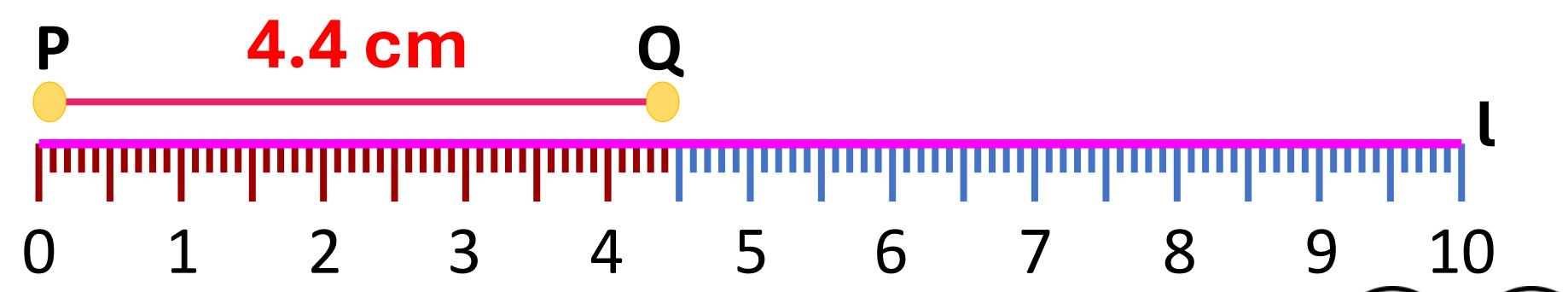
The beginning of the line(P) is at 0.

The end of line(Q) crossed 4 but didn't reach 5. So, therefore, it is denoted by 4 cm.

After 4 cm, the line passed 4 small lines. Therefore, it is denoted by 4 mm.

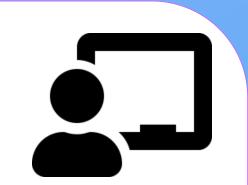
The length of the line segment is PQ is 4.4 cm



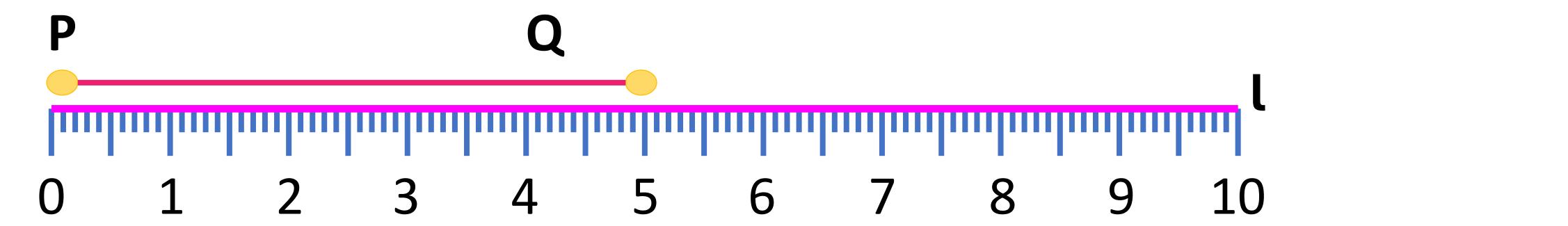




Measure the length PQ?



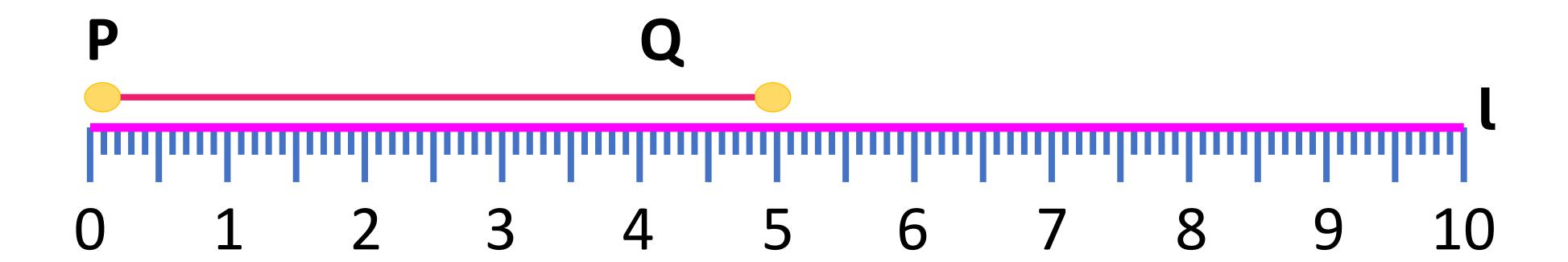
(L -length)



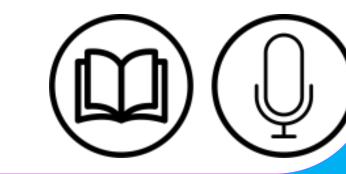
Solution:

The beginning of the line(P) is at 0.

The end point of the line(Q) is at 5. therefore, it is denoted by 5 cm.



The length of the line segment is PQ is 5 cm







Draw line segments of given length







Draw a line segment of length PQ = 4.2 cm using ruler.

Solution:

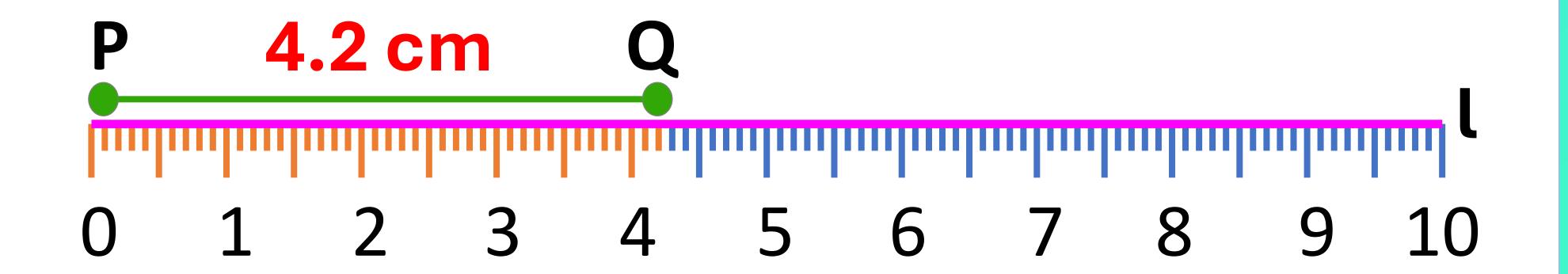
Step: 1

Draw a line 'L' and mark a point 'P'

P

Step: 2

Measure 4.2 cm using ruler as placing the pointer at '0' and the pencil pointer(Q) at 4.2 cm



Step: 3

PQ is the required line segment of length 4.2 cm









Draw a line segment of length PQ = 6 cm using ruler.

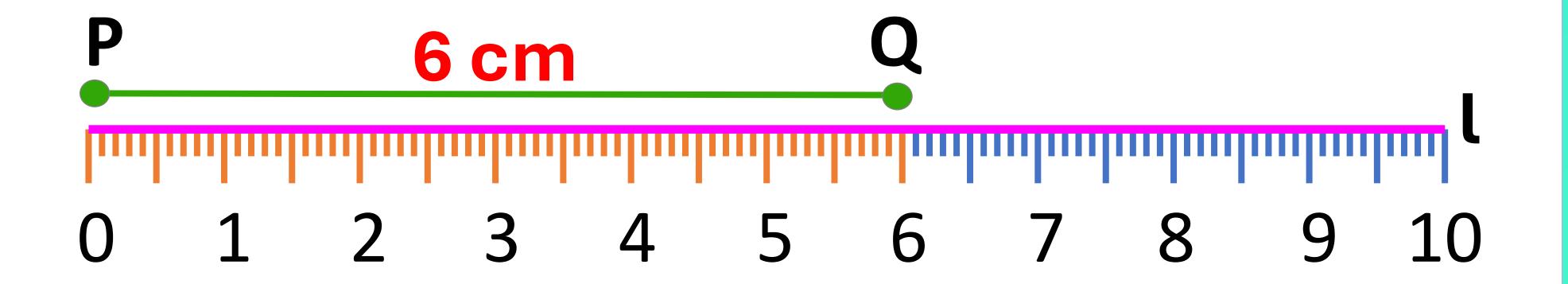
Solution:

Step: 1

Draw a line 'l' and mark a point 'P'

Step: 2

Measure 6 cm using ruler as placing the pointer at '0' and the pencil pointer (Q) at 6 cm



Step: 3

PQ is the required line segment of length 6 cm









Draw a line segment of length PQ = 7.5 cm using ruler.

Solution:

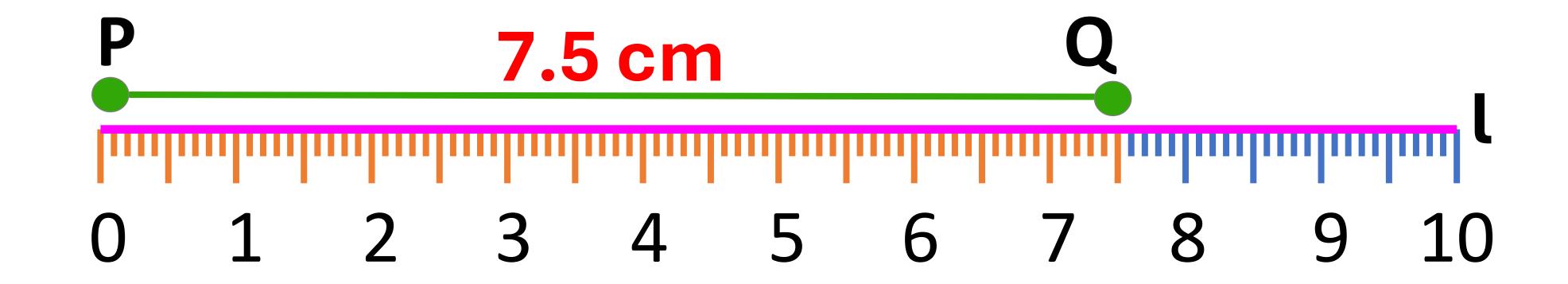
Step: 1

Draw a line 'l' and mark a point 'P'

P

Step: 2

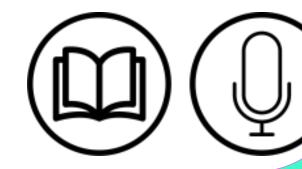
Measure 7.5 cm using ruler as placing the pointer at '0' and the pencil pointer (Q) at 7.5 cm



Step: 3

PQ is the required line segment of length 7.5 cm

7.5 cm







Draw a line segment of length PQ = 9 cm using ruler.

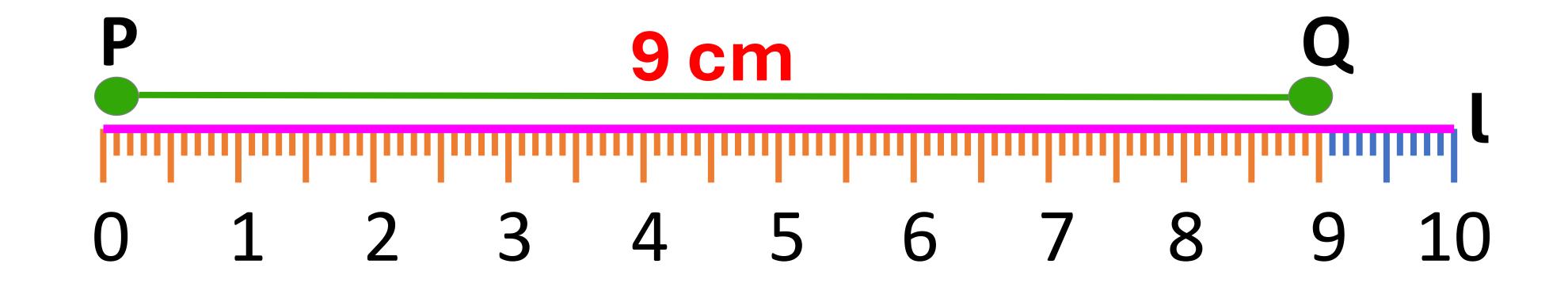
Solution:

Step: 1

Draw a line 'L' and mark a point 'P'

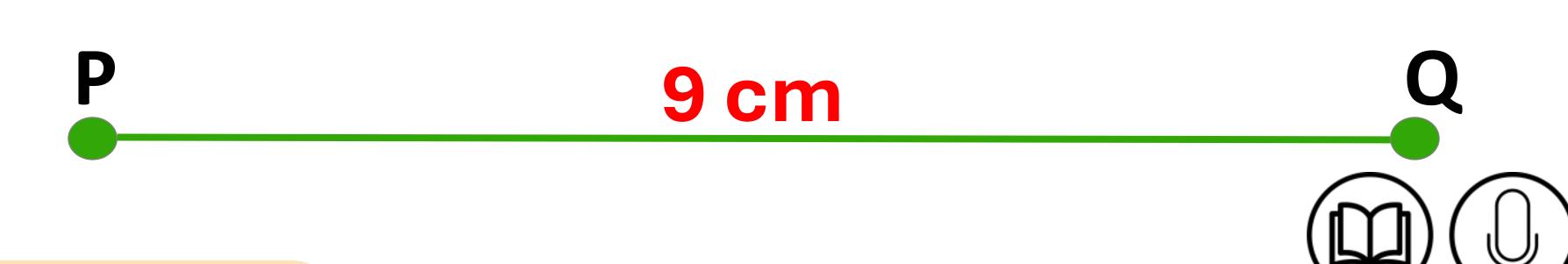
Step: 2

Measure 9 cm using ruler as placing the pointer at '0' and the pencil pointer (Q) at 9 cm



Step: 3

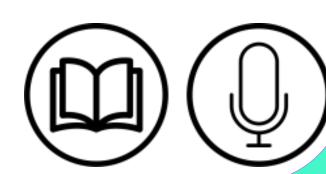
QR is the required line segment of length 9 cm







Parallel lines

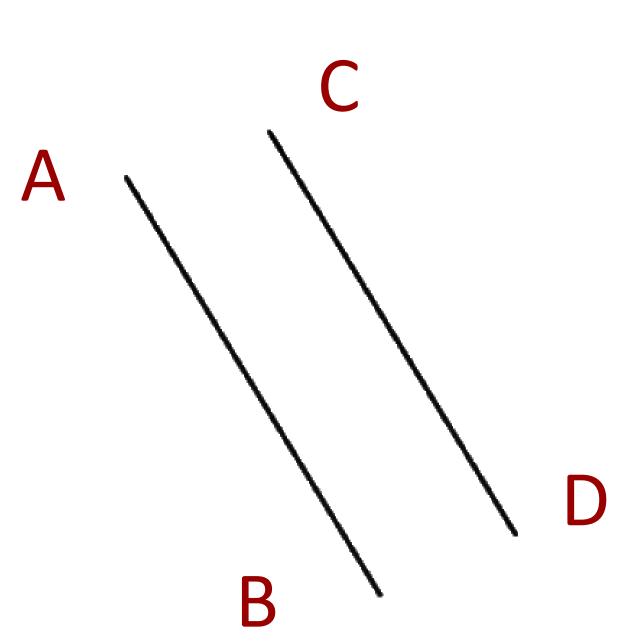




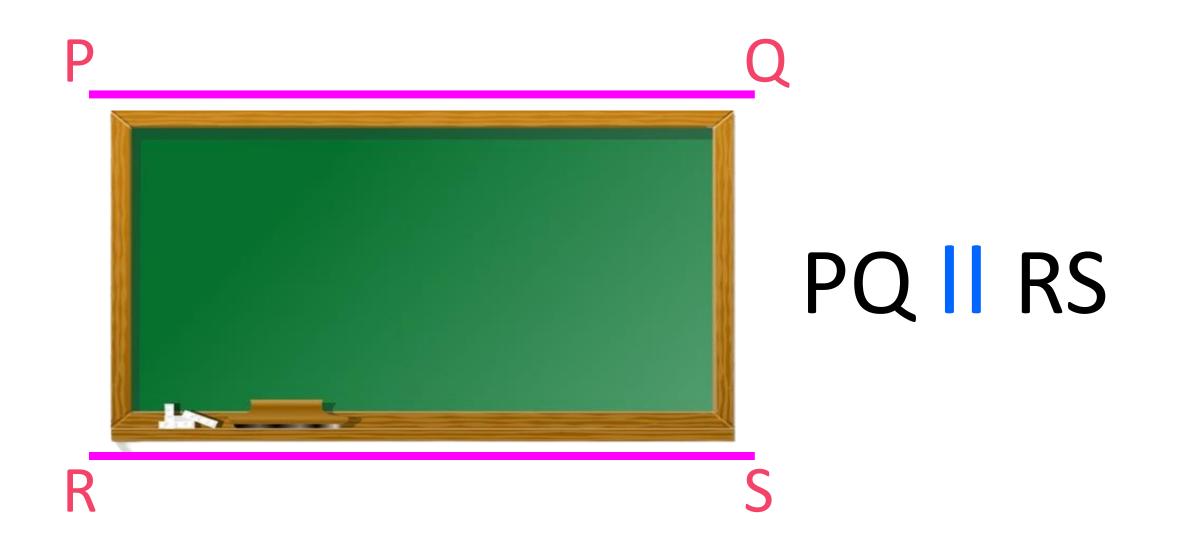
What is parallel lines?

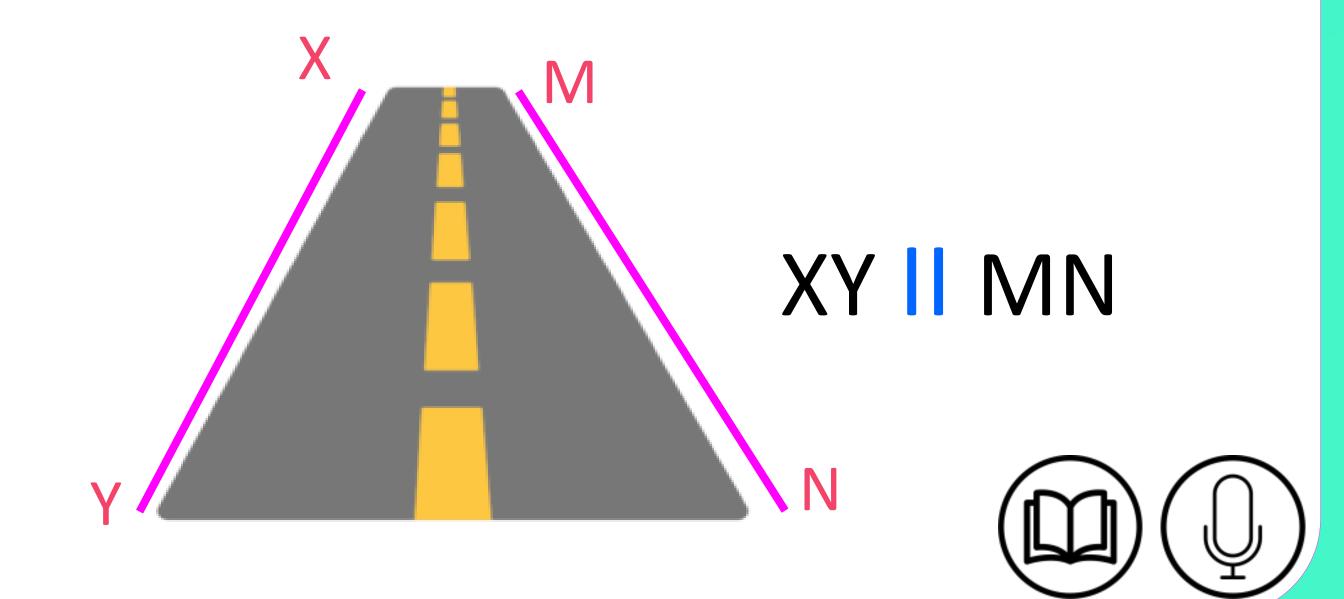


- The lines that never intersect and are equidistant are parallel.
- The slope of parallel lines is always equal.
- The symbol for parallel line is l
- t It is denoted by AB | CD



Example of parallel lines

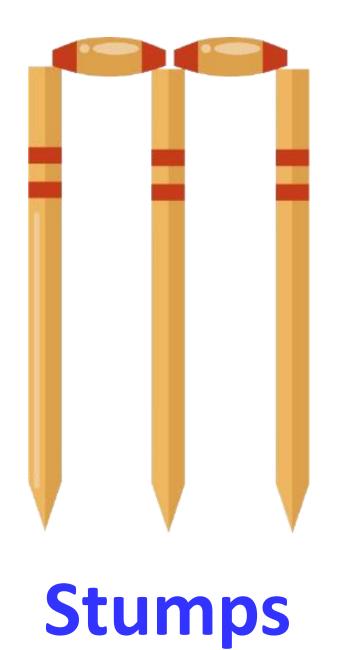


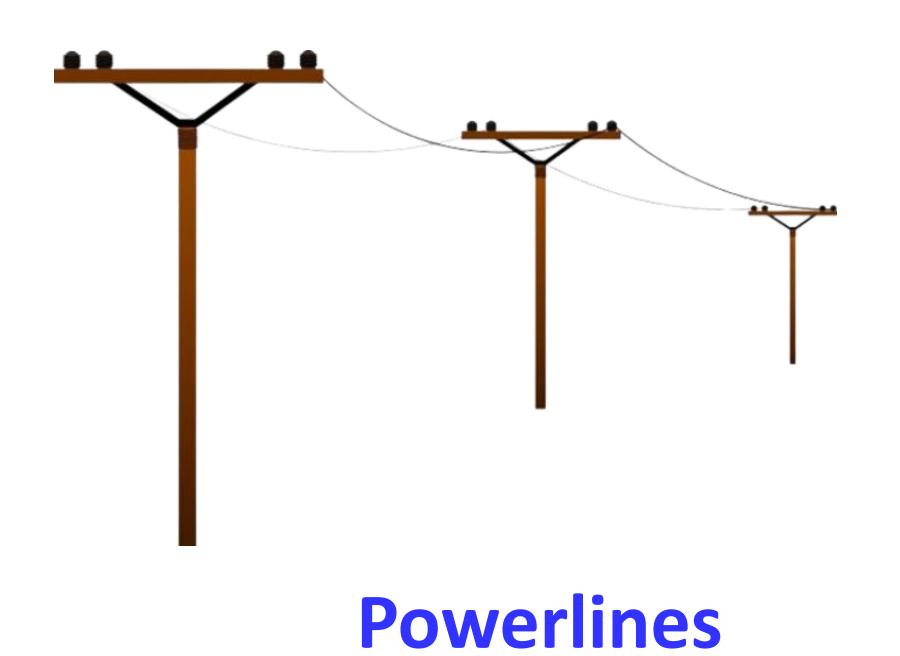




Real life examples of parallel lines





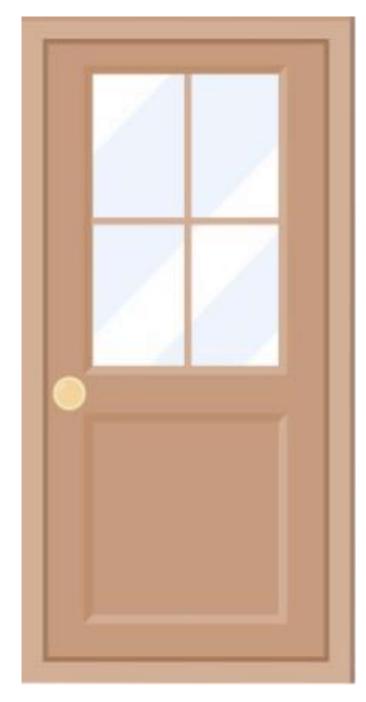






Ladder

Phone



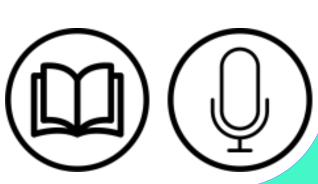




Bridge



Escalator







Perpendicular line



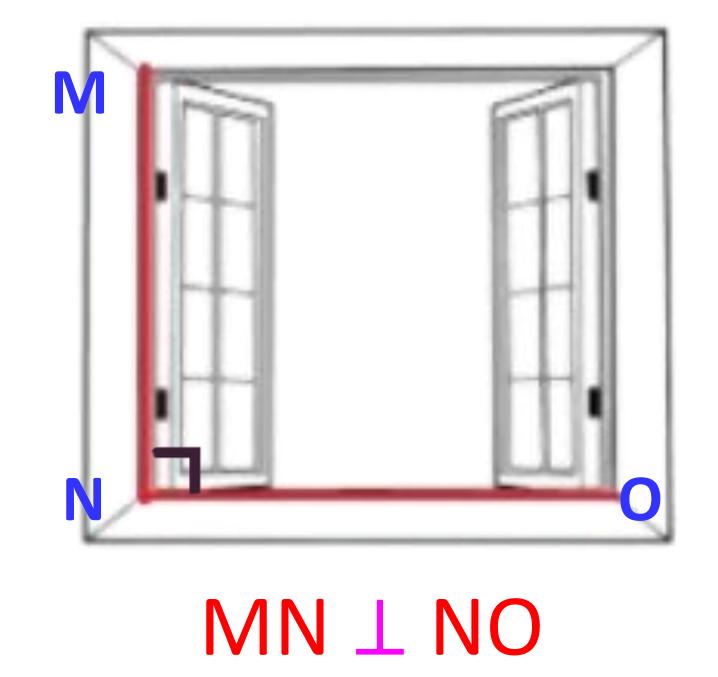


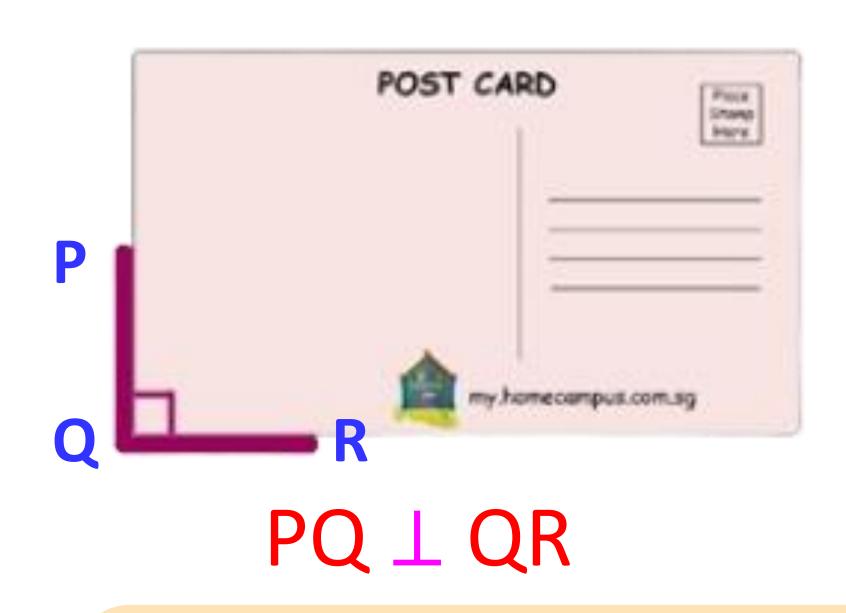
What is perpendicular lines?

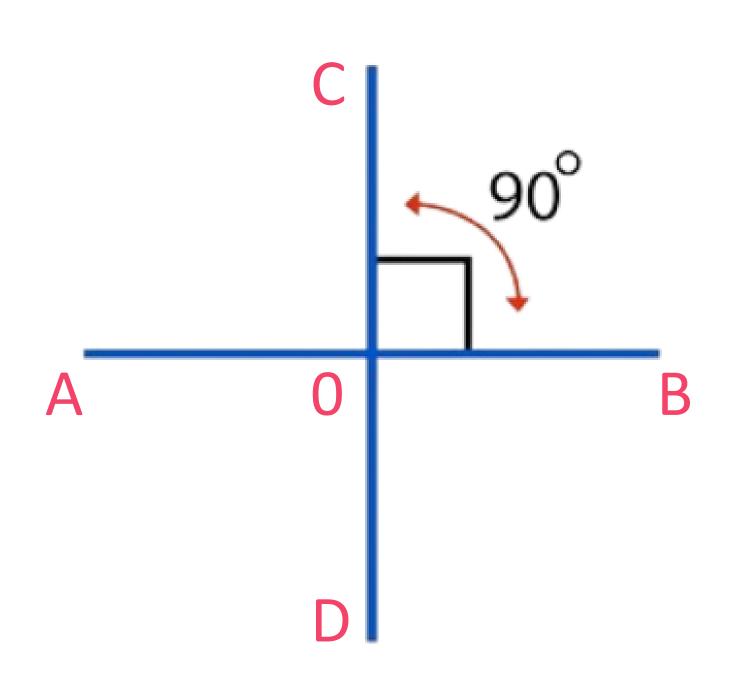


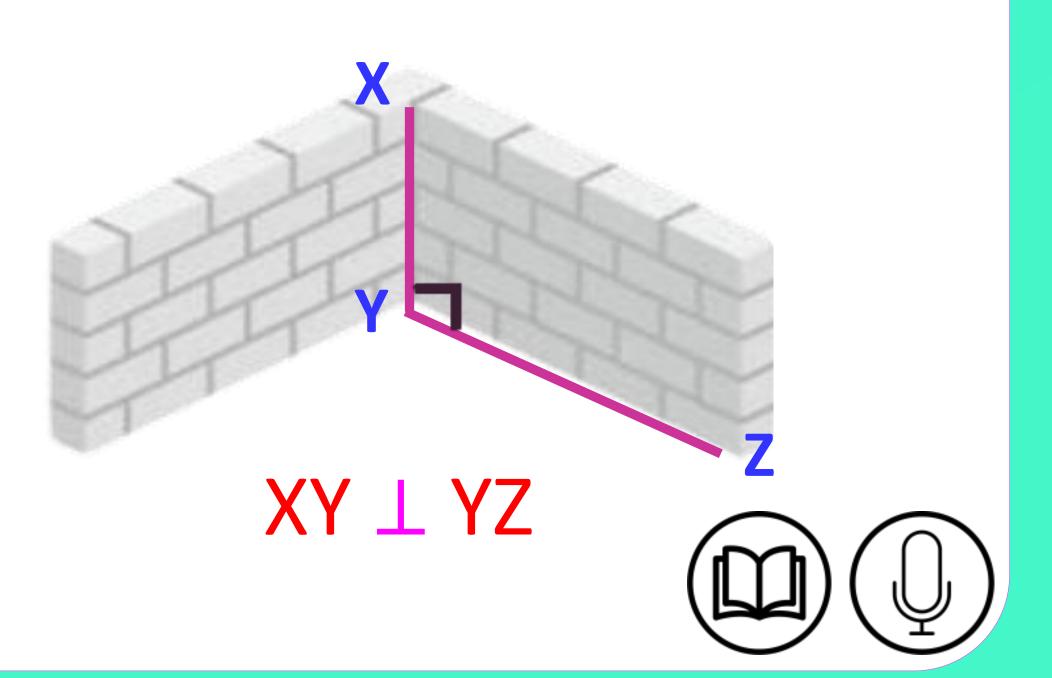
- The lines which make right angles at the point of intersection are perpendicular.
- \star If two lines are perpendicular to each other, the angle between them will be 90°
- ★ The symbol for perpendicular lines is ⊥
- ★ It is denoted by AOB ⊥ COD

Example of perpendicular lines











Real life examples of perpendicular lines



