Mathematics

(www.tiwariacademy.com) (Chapter - 5) (Understanding Elementary Shapes) (Class - VI)

Exercise 5.1

Question 1:

What is the disadvantage in comparing line segments by mere observation?

Answer 1:

There may be chance of error due to improper viewing.

Ouestion 2:

Why is it better to use a divider than a ruler, while measuring the length of a line segment?

Answer 2:

It is better to use a divider than a ruler, because the thickness of the ruler may cause difficulties in reading off her length. However divider gives up accurate measurement.

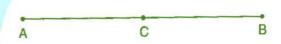
Question 3:

Draw any line segment, say \overline{AB} . Take any point C lying in between A and B. Measure the lengths of AB, BC and AC. Is AB = AC + CB?

[Note: If A, B, C are any three points on a line, such that AC + CB = AB, then we can be sure that C lies between A and B.]

Answer 3:

Yes.



Question 4:

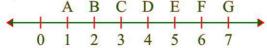
If A, B, C are three points on a line such that AB = 5 cm, BC = 3cm and AC = 8 cm, which one of them lies between the other two?

Answer 4:

 \overline{AC} is the longest line segment, thus B is the point between A and C.

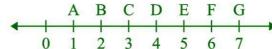
Question 5:

Verify whether D is the mid-point of \overline{AG} .



Answer 5:

AD = 3 units, DG = 3 units



AD = DG.

Thus, D is the mid-point.

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Question 6:

If B is the mid-point of \overline{AC} and C is the mid-point of \overline{BD} , where A, B, C, D lie on a straight line, say why AB = CD?

Answer 6:

B is the mid-point of \overline{AC} .

$$\therefore$$
 AB = BC ... (i)

And C is the mid-point of \overline{BD} .

From equation (i) and (ii), we get

$$AB = CD$$

Question 7:

Draw five triangles and measure their sides. Check in each case, of the sum of the lengths of any two sides is always less than the third side.

Answer 7:

Yes, sum of two sides of a triangle is always greater than the third side.

