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Advanced Executive Program in Cyber Law, Program in IT Law

Class 6 Mathematics Chapter 5

Exercise 5.1

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\* फ्री स्टडी मटेरियल

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**Question 1:** What is the disadvantage in comparing line segments by mere observation?

Answer: There may be chance of error due to improper viewing.

**Question 2:** Why is it better to use a divider than a ruler, while measuring the length of a line segment?

Answer: 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: Yes.

$AB = 6.5 \text{ cm}$ ,  $AC = 3 \text{ cm}$ ,  $CB = 3.5 \text{ cm}$

$AC + CB = 3 \text{ cm} + 3.5 \text{ cm} = 6.5 \text{ cm} = AB$

**Question 4:** If A, B, C are three points on a line such that  $AB = 5 \text{ cm}$ ,  $BC = 3 \text{ cm}$  and  $AC = 8 \text{ cm}$ , which one of them lies between the other two?

Answer:  $\overline{AC}$  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:  $AD = 3 \text{ units}$ ,  $DG = 3 \text{ units}$

$AD = DG$ .

Thus, D is the mid-point.

**Question 6:** If B is the mid-point of AC and C is the mid-point of BD, where A, B, C, D lie on a straight line, say why  $AB = CD$ ?

Answer: B is the mid-point of  $\overline{AC}$

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

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

$\therefore BC = CD$  ... (ii)

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