

RS Aggarwal Class 10 Solutions Constructions

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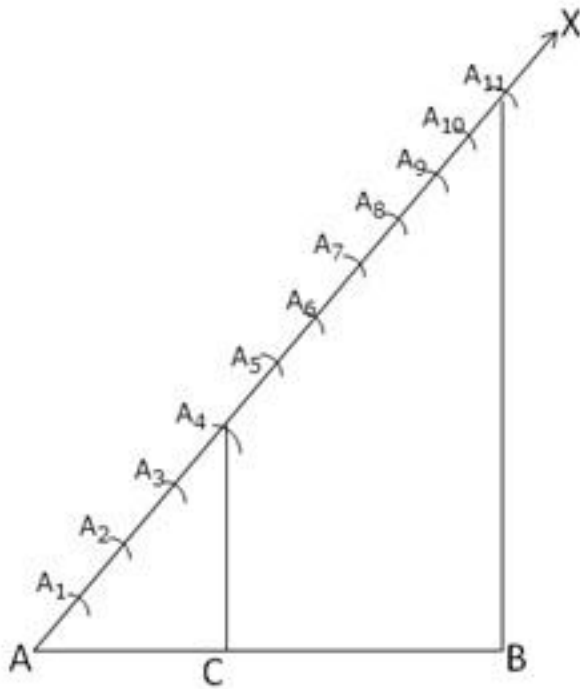
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Question 1:



Steps of construction:

Step 1 : Draw a line segment $AB = 6.5$ cm

Step 2: Draw a ray AX making $\angle BAX$.

Step 3: Along AX mark $(4+7) = 11$ points

$A_1, A_2, A_3, A_4, A_5, A_6, A_7, A_8, A_9, A_{10}, A_{11}$, such that

$AA_1 = A_1A_2$

Step 4: Join A_{11} and B .

Step 5: Through A_4 draw a line parallel to $A_{11}B$ meeting AB at C .

Therefore, C is the point on AB , which divides AB in the ratio $4 : 7$

On measuring,

$AC = 2.4$ cm

$CB = 4.1$ cm