



The No. 1 CBSE Math Website In The World

In The Service of Student Community

MM 20

Constructions

Time 1h

Section A 1 Marks Each

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- Using a ruler and a pair of compasses, it is possible to construct an angle of
(a) 40° (b) 35° (c) 47.5° (d) 37.5°
- The construction of a $\triangle ABC$ in which $AB=4\text{cm}$, $\angle A = 60^\circ$ is not possible when difference of BC and AC is equal to
(a) 2.5 cm (b) 3.6 cm (c) 3 cm (d) 5.5 cm
- The construction of a triangle ABC , given that $BC=4.4$ cm, $\angle C = 60^\circ$ is possible when difference of AB and AC is equal to
(a) 4.5 cm (b) 5.1 cm (c) 2.8 cm (d) 4.9 cm

Section B 2 Marks Each

- A triangle ABC can be constructed in which $\angle B = 105^\circ$, $\angle C = 90^\circ$ and $AB + BC + AC = 10$ cm. state true or false and give reason.

Section B 3 Marks Each

- Construct a triangle ABC in which $BC=6.5$ cm, $\angle B = 75^\circ$ and $AB + AC = 12.5$ cm.
- Construct a triangle ABC in which $BC = 7.5$ cm, $\angle B = 45^\circ$ and $AB - AC = 3$ cm.

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7. Construct a triangle PQR in which $QR = 6$ cm, $\angle Q = 60^\circ$ and $PR - PQ = 2.5$ cm.
8. Construct a triangle XYZ in which $\angle Y = 30^\circ$, $\angle Z = 90^\circ$ and $XY + YZ + ZX = 11.5$ cm.
9. Construct an equilateral triangle if its altitude is 6 cm.

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