

WORKSHEET 11

CHAPTER 11 – CONSTRUCTIONS

- With the help of a ruler and a compass, it is not possible to construct an angle of
(a) 37.5° (b) 40° (c) 22.5° (d) 67.5°
- The construction of a triangle ABC, given that $BC = 6$ cm, $\angle B = 45^\circ$ is not possible when difference of AB and AC is equal to
(a) 4.3 cm (b) 6.9 cm (c) 8.0 cm (d) 3.7 cm
- With the help of a ruler and compass, it is possible to construct an angle of
(a) 37.5° (b) 40° (c) 50° (d) 65°
- The construction of a triangle ABC, given that $BC = 3$ cm, $\angle C = 60^\circ$ is possible when difference of AB and AC is equal to
(a) 3.2 cm (b) 3.1 cm (c) 3 cm (d) 2.8 cm
- Construct a $\triangle ABC$ if its perimeter is 10.4 cm and base angles are 45° and 120° .
- Construct a triangle ABC in which $\angle B = 30^\circ$, $\angle C = 90^\circ$ and $AB + BC + CA = 11$ cm.
- Construct a $\triangle PQR$ in which $RP = 5$ cm, $QR = 4.5$ cm and altitude $RM = 3.5$ cm.
- Construct a $\triangle ABC$ whose perimeter is 14 cm and sides are in the ratio 2 : 3 : 4.
- Construct a square each of whose side measures 3.6 cm.
- Construct a rectangle ABCD in which $AB = 6$ cm and $BC = 4.5$ cm. Construct a triangle equal to the area of this rectangle.

Name:

Teacher's signature:

Class: IX

Date:



ANSWERS

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1. (a) 40°
2. (b) 6.9 cm
3. (a) 37.5°
4. (d) 2.8 cm