

Grade 7 Practical Geometry Worksheets

Grade 7 Maths Practical Geometry Multiple Choice Questions (MCQs)

1. A triangle can be constructed by taking its sides as:

- (a) 1.4 cm, 3.2 cm, 4.6 cm
- (b) 2.3 cm, 3.2 cm, 5.5 cm
- (c) 1.8 cm, 1.8 cm, 5 cm
- (d) 2 cm, 3 cm, 4 cm

2. A triangle can be constructed by taking two of its angles with any side as:

- (a) 120° , 30°
- (b) 70° , 120°
- (c) 90° , 90°
- (d) 60° , 120°

3. Which geometrical instrument can be used to draw an arc:

- (a) Scale
- (b) Compass
- (c) Set square 30° , 60° , 90°
- (d) Set square 45° , 45° , 90°

4. How many lines can be drawn parallel to a given line, through a point outside the given line?

- (a) Two
- (b) One
- (c) Many lines
- (d) None

5. In a $\triangle ABC$ it is given that $\angle B = 37^\circ$ and $\angle C = 29^\circ$. Then the value of $\angle A$ is:

- (a) 86°
- (b) 66°
- (c) 114°
- (d) 57°

6. The sum of any two sides of a triangle is always:

- (a) Equal to the third side
- (b) Less than the third side
- (c) Greater than or equal to the third side
- (d) Greater than the third side

7. $\triangle ABC$ is right angled at A. If $AB = 24\text{cm}$ and $AC = 7\text{cm}$, then the value of BC is:

- (a) 31cm
- (b) 17cm

- (c) 25cm
- (d) 28cm

8. The angles of a triangle are $(3x)^\circ$, $(2x - 7)^\circ$ and $(4x - 11)^\circ$, then the value of x

- (a) 18
- (b) 20
- (c) 22
- (d) 30

9. In a $\triangle ABC$ if $\angle A - \angle B = 33^\circ$ and $\angle B - \angle C = 18^\circ$. then the value of $\angle B$ is:

- (a) 35°
- (b) 45°
- (c) 55°
- (d) 57°

10. In a $\triangle ABC$ if $2\angle A = 3\angle B = 6\angle C$. Then the value of $\angle B$ is:

- (a) 30°
- (b) 45°
- (c) 60°
- (d) 90°

Grade 7 Maths Practical Geometry Fill In The Blanks

1. line (s) can be drawn parallel to a given line.
2. sides and the angle between them are enough to construct a triangle.
3. angles and the side included between them is enough to construct a triangle.
4. For construction of a triangle, the sum of three angles of a triangle should be
5. The angle of a triangle is equal to the sum of interior opposite angles.

Grade 7 Maths Practical Geometry Very Short Answer Type Questions

1. Draw two parallel lines at a distance of 5 cm apart.
2. Draw a triangle whose side are of length 4 cm, 5 cm and 6 cm.
3. Construct an obtuse angled triangle which has a base of 5 cm and base angles of 30° and 110° .
4. Construct a triangle ABC whose sides $AB = 3$ cm, $BC = 4$ cm and $\angle B = 60^\circ$.