

CBSE Sample Paper

Maths

Class 7

Time: 3 hours

F.M. 80

INSTRUCTIONS

- Q.1 to Q.6 contain 1 mark each
- Q.7 to Q.12 contain 2 marks each
- Q.13 to Q.22 contain 3 marks each
- Q.23 to Q.30 contain 4 marks each

Section - A

1. Find the value of $(-5)^2$.
2. Express $(\frac{-1}{8})$ as a power of rational numbers.
3. Solve: $(-14x^2 + 4x^2)$.
4. State SAS congruence condition.
5. How many lines of symmetry a parallelogram has?
6. A square pyramid has _____ vertices.

Section - B

7. Write the number of edges and vertices of a triangular prism.
8. Write the English capital alphabets which have only vertical line of symmetry.
9. Find the probability of getting a face card from a pack of 52 cards.
10. The area of rectangle is 255 cm^2 and its length is 17 cm. find the breadth of rectangle.
11. The angles of triangles are in the ratio 2:3:5. Find the angles.
12. How much is $4x^2 + 2y$ greater than $4y^2 + 2x$?

Section - C

13. If $2x + 3 = 2$, then find $2x^2 + 12$.
14. Evaluate $\left[\left(\frac{4}{3} \times \frac{5}{7}\right)^2 \div \left(\frac{7}{5}\right)^{-2}\right]$
15. Find the angles of an isosceles right triangle.

16. State the correspondence between the vertices, sides and angles of the triangles when $\triangle ABC \cong \triangle FED$.
17. Draw a line segment AB, draw a line parallel to AB and at a distance of 2 cm from AB.
18. A square piece of ground is 125 m long. Find the cost of erecting a fence around it at Rs. 1.50 per m.
19. A rectangular grass plot measures 50 m \times 36 m. A path of 2 m wide is to be laid around it on the outside. Calculate the cost of levelling the path at 50 paise per m^2 .
20. Find the mode and median of 13, 14, 12, 15, 17, 16, 19, 13, 21.
21. Draw a regular pentagon and write its order of rotational symmetry.
22. Construct a net of square pyramid.

Section - D

23. Simplify $\left[5 \times \left(\frac{3}{10}\right)^0 - 2 \times \left(\frac{4}{7}\right)^0 + 3 \times \left(\frac{x}{y}\right)^0\right]$
24. What must be subtracted from $\left[5x^2 + 9xy - \frac{9}{2}y^2\right]$ to get $\left[\frac{5}{3}x^2 - \frac{7}{3}xy + y^2\right]$.
25. Find x and y in the given figure.
26. A ladder 5 m long leaning against the wall of a house just reached a window at a height of 4.8 m. How far is the lower end of the ladder from the box of the wall.
27. Construct a $\triangle ABC$ in which $AB = 6$ cm, $AC = 4$ cm and angle $A = 45^\circ$.
28. Two cross roads each 2 m wide, run at right angles through the centre of a rectangular park 80 m by 60 m. find the area of cross roads.
29. If the mean of $x, x + 2, x + 4, x + 6$ and $x + 8$ is 24, then find x .
30. The population (in millions) of six countries as estimated in 2014-15 is as under

Country	Srilanka	Iraq	Canada	Denmark	Pakistan
Population (In millions)	320	360	550	690	850

Represent the above data by means of bar graph.