

Dwarka International School
Class-VI, Subject- Maths
SAMPLE PAPER

Time-3 hrs

M.M.-80

General Instructions:-

- i) All questions are compulsory.
- ii) The Sample Paper consists of 30 questions divided into 4 Sections-A, B, C & D
- iii) Section A contains 6, which carries 1 mark each, section-B contains 6 questions of 2 marks each, Section C contains 10 questions of 3 marks each and section- D contains 8 questions of 4 marks each.

Section A **(1X6 = 6 marks)**

- Q1. When all the three sides of a triangle are unequal in length, it is called a _____ triangle.
- Q2. The additive inverse of -11 is _____.
- Q3. The frequency 18 is written symbolically as _____ using tally marks.
- Q4. The measure of a side of a regular pentagon is 10 cm, and then its perimeter is _____
- Q5 There are 15 boys and 20 girls in a class, and then the ratio of boys to girls in the simplest form is _____
- Q6 The perpendicular bisector of a line segment measuring 10cm cuts it at _____.

Section B **(2X6=12 marks)**

- Q7 Solve: $-19 + (-20) + (-18)$
- Q8. A boy travelled 2.2 km on foot and 3.05 km on bicycle. How much total distance did he cover?
- Q9. Write algebraic expression for the following:
- a. A number x increased by 8.
 - b. One hundred divided a number p.
- Q10. Find x if 4: 16: x: 8
- Q11. Find the ratio of 400 mL to 2L.
- Q12. Find the area of a rectangle whose length is 8 m and breadth is 3.5 m.

Section C **(3X10= 30 marks)**

- Q13 Fill ups:
- a. An angle greater than 180° but less than 360 is called _____.
 - b. A triangle having all sides equal is called _____.
 - c. A regular polygon has _____ sides and _____ angles.
- Q 14 a) Rearrange the following in descending order: $-4, 3, -2, -7, 4, 0, -20$
- b) Find the sum of (-28) and 23.
- Q15. In Srinagar, snowfall in three weeks of winter season was recorded as 10.67 cm, 11.34 cm, and 9.78 cm. What is the total snowfall in the season?
- Q16. The side of a square is 20 m. Find the cost of fencing it at rupees 15 per square meter.

Q17. The heights (in cm) of 20 students of class VI were recorded as follows:

141,143,140,143, 145, 142, 144, 141, 140, 142, 141, 140, 143, 139, 144, 145, 142, 140, 141, 143

Prepare a frequency table and find the number of students:

- With maximum height
- With minimum height

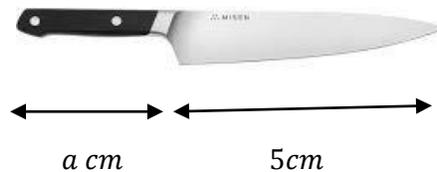
Q18. If a dozen eraser costs rupees 54, how many erasers can be bought for rupees 99?

Q19. Draw a line segment $PQ = 3.7$ cm. Take a point A not on the line and draw a perpendicular to PQ. Write the steps of construction also.

- Q20. 1. Write the place value of 9 in 325.097.
2. Which one is greater: 1.277 or 1.279
3. Express the decimal in fraction: 0.8

Q 21. Raja is 10 years old to Ravi. If Ravi's age is 'x years', what is Raja's age?

Q 22. a. What is the total length of the knife?



b. Write $5m-3$ in terms of statement.

Section D

(4X8=32 marks)

- Q23. 1. Simplify: $2- 4 + 15 - (-12) + (-4)$
2. Compare -45 and 45

Q24. Surbhi has 30m 5cm long cloth. She cuts 4m 50cm from this to make a suit. How much is left with her?

OR

Ravi travelled 18km 343m by bus, 4km 15m by scooter and finally walked 208m to reach the stadium for her basketball match. What is the total distance travelled by her?

Q25 In a traffic survey, the following observations was noted about the vehicles passed in a fixed time.

Cars	Buses	Trucks	Bikes	Bicycles
30	10	15	45	40

Draw a bar graph.

Q26 The length and breadth of a rectangle are 18m and 12 m respectively. If its perimeter is equal to the perimeter of a square, find the side of the square. Also, find the area of the square.

Q27. A rectangle has length ' l ' and its breadth is 6cm more than the length. Find the equation for its length and perimeter.

Q28 Find the second term of a proportion if its first, third and fourth terms are 18,30 and 15.

Q29 Where will the hand of a clock stop if it starts at 12 and

- 1) makes $\frac{1}{4}$ of a revolution clockwise.
- 2) makes $\frac{1}{2}$ of a revolution clockwise.
- 3) makes $\frac{3}{4}$ of a revolution clockwise.
- 4) Makes complete revolution.

Q30. With the help of ruler and compass, draw an angle of 60° and bisect it. Write the steps of construction also.