

**MBS INTERNATIONAL SCHOOL
SECTOR-11, DWARKA
PRACTICE PAPER
SESSION- 2019-20
MATHEMATICS
CLASS –VII**

Time allowed: 1½Hours

Maximum Marks: 40

General Instructions:

- *All the questions are compulsory.*
- *The question paper consists of 20 questions divided into four sections A, B, C & D. Section A comprises of 10 questions of 1 mark each. Section B comprises of 3 questions of 2 marks each. Section C comprises of 4 questions of 3 marks each and Section D comprises of 3 questions of 4 marks each.*

SECTION – A

- | | | |
|-----|--|---|
| 1 | If the area of a square is 100 cm^2 , then its perimeter is | 1 |
| | a) 15cm b) 10cm c) 30cm d) 40cm | |
| 2. | By which of the following criteria, two triangles can not be proved congruent? | 1 |
| | a) ASA b) SSA c) RHS d) SSS | |
| 3. | No. of lines of symmetry of a square is | 1 |
| | a) 0 b) 2 c) 4 d) 1 | |
| 4. | $\frac{2^3 \times 2^4}{2^2} =$ _____ | 1 |
| | a) 2^6 b) 2^2 c) 2^5 d) 2^3 | |
| 5. | If $2x - 3 = 5$, then x is | 1 |
| | a) 8 b) 4 c) 13 d) 1 | |
| 6. | The probability of getting an odd number on a dice is _____. | 1 |
| 7. | The mode of the given data 2,2,0,1,3,2,0 and 1 is _____. | 1 |
| 8. | Write the given ratio in simplest form: 25cm : 30 m. | 1 |
| 9. | Write the number of faces in a square pyramid. | 1 |
| 10. | What is the ratio of the circumference and diameter? | 1 |

SECTION –B

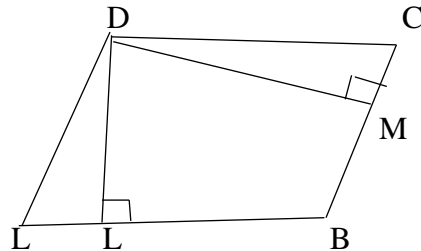
11. Find the median of the given data: 35, 29, 23, 11, 30, 17, 18, 10, 29, 19, 20, 13, 28 and 25. 2
12. Draw figures having rotational symmetry of order 3. 2
13. A wire in the shape of a square of side 11m is rebent into the shape of a circle. Find the area of the circle. 2

SECTION – C

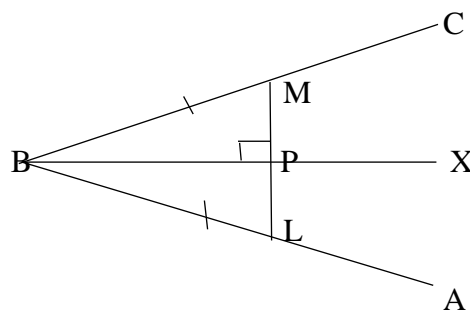
14. Construct a right-angled triangle having hypotenuse of length 5.4 cm and one of its acute angle measures 60° . 3
15. Find the value of n in the following: $27 \times 3^{n+2} = 243$ 3
16. Solve: $7(x - 2) - 8(4 - 3x) = 47$ 3
17. If $A:B=5:6$ and $B:C=4:7$, find $A:B:C$. 3

SECTION – D

18. In the given fig. ABCD is a parallelogram, DL is perpendicular to AB and DM is perpendicular to BC. IF $AB=18\text{cm}$, $BC=12\text{cm}$ and $DM=9.3\text{cm}$. Find DL. 4



19. In the given fig. P is any point on BX. MPL is perpendicular BX and it meets BC at M and AB at L such that $BM=BL$. Prove that $PM=PL$. 4



20. Draw a bar graph to represent the given data: 4

Sports	Badminton	Swimming	Cricket	Football
Number of Students	120	70	175	65