

MATHEMATICS
SAMPLE TEST PAPER (SEMSTER II)
CLASS VIII

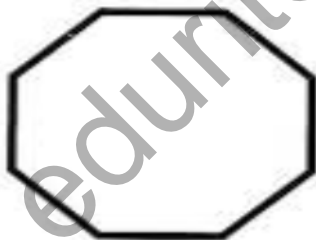
Class:8
Time :2hrs

Max Mks:45
No of pages: 3

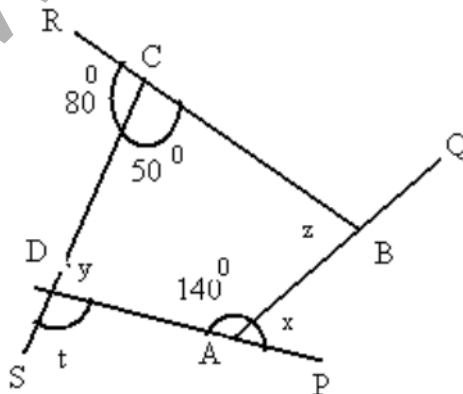
General Instructions:

- ⤴ All questions are compulsory.
- ⤴ Questions 1 to 5 carry 1 mark each.
- ⤴ Questions 6 to 12 carry 2 mark each.
- ⤴ Questions 13 to 14 carry 3 mark each.
- ⤴ Questions 15 to 19 carry 4 mark each.

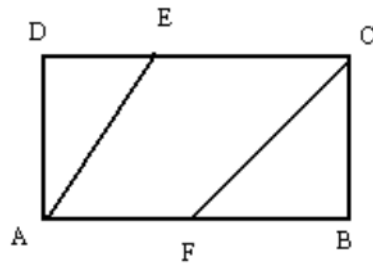
1. A quadrilateral has _____ angles
2. vertices for a) square pyramid b) triangular prism
3. surface area of cuboid = _____
4. If x and y vary inversely and $x = 18$ when $y = 6$, find x when $y = 10$



5. Find the interior angle of a regular octagon
6. Find the xyz value



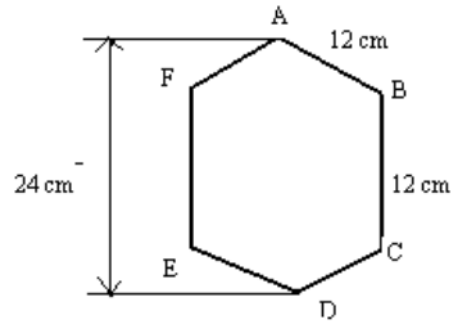
7. In the figure ABCD is a parallelogram and the line segment AE and CF bisect the angles A and C respectively show that AS is parallel to CF.



8. Verify Euler formula for pentagonal pyramid
9. The dimension of a metal box are 22.5 by 2.5m by 25 cm. It is melted and recast into cubes, each of sides 55 cm. How many cubes are formed.
10. A iron pie is 22cm long and its external diameter is 8 cm . If the thickness of the pipe is 2cm and iron weigh 9g/cm^3 . Find the weight of the pipe
11. The list of students marks in a class is 22,24,26,28,30,22,28,30,22,25,24,23,28,26,25,28
prepare a frequency distribution of the the data
12. Prove that sum of the angles of the quadrilateral are 360°
13. construct a quadrilateral ABCD in which $AB = 5\text{ CM}$, $ad = 6\text{ cm}$, $AD = 6\text{ cm}$ and angle $ABC = ACD = 80^\circ$
14. construct a trapezium ABCD in which AB is parallel to DC , $AB = 7\text{cm}$, $BC = 5\text{ cm}$, $AD = 8\text{ cm}$ and angle $B = 55^\circ$
15. Draw a bar graph to represent the data

| YEAR | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------|-------|-------|-------|-------|-------|-------|
| NO OF SCOOTE | 10000 | 15000 | 12000 | 18000 | 20000 | 16000 |

16. Find the area of a regular hexagon ABCDEF in which each side measure 12 cm and whose height is 23cm. As shown in the figure



17. construct a pie chart for the given data

| Item | food | clothes | Education | Rent | Savings |
|-------------|------|---------|-----------|------|---------|
| Expenditure | 2500 | 1000 | 1500 | 2500 | 1500 |

18. A bag contain 5 white ball, 7 red balls and 9 yellow balls and three ball are drawn at a time, what is the probability of getting on;y red balls b) both white and yellow balls

19. Form the graph and find the value of y when $x = 8$