

MAR THOMA RESIDENTIAL SCHOOL, TIRUVALLA

ANNUAL EXAMINATION 2017- '18

CLASS:VI

MATHEMATICS

MARKS: 80

TIME:1 ½ hrs

I Fill in the blanks: -

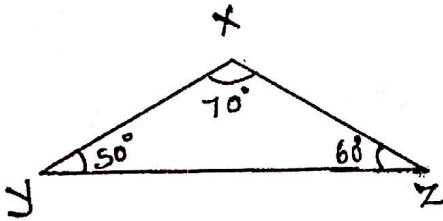
[6]

1. 25m 5cm in the decimal form = _____.
2. In an isosceles trapezium, _____ sides are equal.
3. $|18| - |-3| =$ _____.
4. In an equilateral triangle each angle is of measure _____.
5. The _____ of the circle is the biggest chord.
6. A polygon with five sides is called _____.

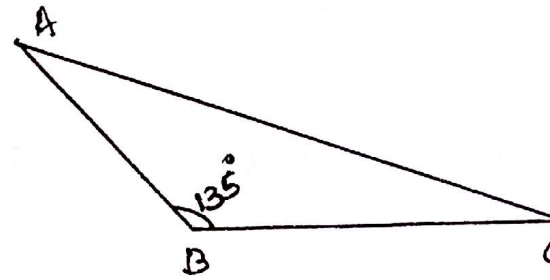
II. State whether the triangles are acute, obtuse or right-angled triangles: -

[2]

(a)



(b)



III. Solve with necessary steps:-

[Questions 1 to 7 carries 3 marks each]

[3 X 7= 21]

1. Write the expanded form of 60.804
2. Evaluate: (1) $(-8) + (-11)$
(2) $(-24) - (-18)$
3. Arrange in descending order: 92.941 ; 99.941 ; 99.114 ; 92.419
4. Find the ratio of 4litres to 200 millilitres
5. Find the side of a square whose perimeter is 20 m
6. Find the missing term: 16:24 :: 6 : x
7. If the cost of 6 cans of juice is Rs210, then what will be the cost of 4 cans of juice .

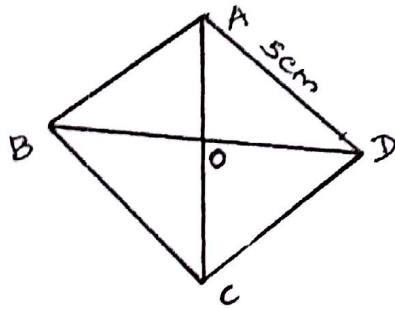
[Questions 8 to 16 carries 4 marks each]

[4X 9= 36]

8. Evaluate the expression $a + 2b - 3c$ when $a = 5, b = 4, c = 2$

9. ABCD is a rhombus . Find the length of all sides and the length of its diagonals

Given $OA = 3\text{cm}; OB = 4\text{cm}$



10. Simplify: $-23.86 - 13.41 + 3.7$

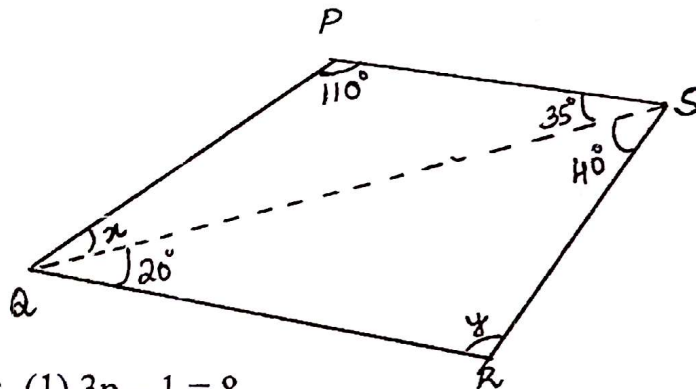
11. Express as algebraic equations: -

(1) 5 times a number p is equal to 35

(2) 8 subtracted from x gives 23

12. How much distance will a car take to cover in 9 hours travelling at a speed of 36 km/h

13. Find the measure of x and y in the quadrilateral PQRS



14 Solve the equations: (1) $3p - 1 = 8$

(2) $100x = 400$

15. Using a ruler and a compass construct an angle of measure 60°

16. From the sum of 14.53 and 11.64 subtract 13.69

[Questions 17 to 19 carries 5 marks each]

[5X 3= 15]

17. Each side of a square field is 28m. Find the (1) area of the square field.

(2) Cost of ploughing the field at the rate of Rs 5 per m^2

18. The length of a rectangular field is four times its breadth. If the perimeter of the field is 60m, find its length and breadth.

19. Find the perimeter and area of a rectangular field whose length is 15 cm and breadth is 7cm.