V & C Patel English School
Yearly Examination

Max. Marks: 80
Std.: VI Date: 06/03/2018
Subject: Mathematics Time: 3 Hours

General Instructions:

Section A: Q.No. 1 to 8 carry 1 mark each
Section B: Q.No. 9 to 16 carry 2 marks each
Section C: Q.No. 17 to 24 carry 3 marks each
Section D: Q.No. 25 to 32 carry 4 marks each

Section-A

1. Write 306.45 in words.
2. What is data?
3. Give the formula for the area of the square and rectangle.
4. Express the diameter of the circle (d) in terms of its radius (r).
5. The side of a regular pentagon is denoted by't'. Express the perimeter of the pentagon using't'.
6. Find the ratio of the following: 2 meters : 35 cm
7. List any two symmetrical objects from your surroundings.
8. Construct a line segment of length 6.2 cm using ruler and compass.

Section-B

9. The length of Rakesh's textbook is 8cm 4mm. What will be its length in cm?
10. Prepare a tally marks table for the following marks obtained by 25 students in a history test in class VI of a school :
    9,17,12,20,9,18,25,17,19,9,12,9,12,18,17,19,20,25,9,12,17,19,19,20,9
11. Find the perimeter of a regular octagon with each side measuring 11 m.
12. Give expressions in the following cases:
    (i) 12 subtracted from 5p
    (ii) 4 times y to which 5 is added
13. The number of boys and girls in a school are 450 and 390 respectively. Express the ratio of the number of boys to that of the girls.
14. Divide 45 pens between Jiya and Riya in the ratio 5:4.
15. Draw and name the triangle which has
    (i) Exactly one line of symmetry
    (ii) Exactly three lines of symmetry
16. With the same centre O, draw two circles of radii 5 cm and 3.5 cm.

Section-C

17. Write as fractions in lowest form :
    (i) 0.035 (ii) 0.65 (iii) 1.6
18. The following are the number of students in a class of 30 students present during the four days of a week :

Day	Number of students present
Monday	25
Tuesday	30
Wednesday	20
Thursday	15

Represent the above data by a pictograph and answer the following questions:
    (i) How many symbols represent total number of students present on Thursday?
    (ii) On which day the class was full present?
19. Find the cost of fencing a rectangular park of length 165 m and breadth 135 m at the rate of Rs 15 per meter.
20. A square piece of land has each side equal to 100 m. If 4 layers of metal wire have to be used to fence it, what is the length of the wire needed?
21. Take Jay's present age to be $'x'$ years
    (i) What will be his age 7 years from now?
    (ii) What was her age 5 years back?
    (iii) Jay's father's age is 4 years more than 3 times Jay's age. What is his father's age?
22. Determine if the following ratio form a proportion. Also, write the middle terms and extreme terms if the ratio forms a proportion: 40, 30, 60 and 45.
23. Consider the letters of English alphabet A to Z. List among them the letters which have
    (i) Vertical lines of symmetry
    (ii) Horizontal lines of symmetry
24. Draw a circle of radius 4.5 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?

Section-D

25. Find :

(i) $(20) + (-11) + (7) + (-12)$ (ii) $(-34) + (-10) + (11) + (-5)$

(iii) $(-9) - (-13) + (5) + (-32)$ (iv) $(45) + (-16) - (23) - (-17)$

26. Ravina had 30 pens, Shila had 60 pens and Rahul had 90 pens. After 6 months, Ravina used up 10 pens, Shila used up 20 pens and Rahul used up 30 pens. What fraction did each use up? Does each have used up an equal fraction of his/her pens?
27. Vinit bought a book for Rs 18.90, a pen for Rs 8.50 and some papers for Rs 9.05. He gave fifty rupee to the shopkeeper. How much money did he get back?
28. Construct with ruler and compass, angles of the following measure :
    (i) $45°$ (ii) $135°$

29. An orphanage has a room with floor 6 m long and 5 m wide. Neha donates a square carpet of sides 4 m to be laid on the floor. Find the area of the floor that is not carpeted. What values are depicted by Neha?
30. A woman worker earns Rs 18000 in 15 months. How much will she earn in 7 months?
31. Solve the following equations:
    (i) $n + 15 = 22$
    (ii) $\frac{b}{3} = 9$
32. The population of students of four major cities in India in a particular year is given below :

City	Mumbai	Kolkata	Delhi	Chennai	Ahmedabad	Bangalore
Number of students	120	130	150	80	140	90

Represent the above information by a bar graph. What do you infer from this graph?

BEST OF LUCK