Class 8 Mathematics - Sample Paper Set II

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Time allowed: **3 hours;** Maximum marks: **90**

General Instructions:

a) All Questions are compulsory
b) The Question Paper consists of 42 Questions divided in to four sections A, B, C and D
c) Section- A comprises of 15 questions of one mark each
d) Section- B comprises of 11 questions of two mark each
e) Section- C comprises of 11 questions of three mark each
f) Section- D comprises of 5 questions of Four mark each
g) The use of calculator is not permitted.

Section–A

Fill In The Blanks:

1. The property under multiplication used in the following: $\frac{a}{b} \times \frac{b}{a} = 1$ is _____

2. Say True or False: Cube of any even number is even_____

3. Can we use histogram to show data of the number of students participated in a cultural competition from Class 7, Class 8 and Class 9? _____

4. Libin height is 3 Feet and his father Mehavel height is 6 Feet, the ratio is_____

5. The square root value of 64 is _____

6. If square a number end with 0 then its cube also ends with 0, Is it so? _____

7. All CPU are _____ in shape.

Choose The Correct Answer:

8. The ratio between the 90 matchsticks and 30 match boxes is _____
    a) 10 : 3
    b) 3 : 1
    c) 2 : 1
    d) 1 : 2

9. What is the number of outcomes of tossing two coins together?
  a) 2
  b) 4
  c) 6
  d) 8

10. Find the value of x, if $\frac{x-1}{3} = 1$
  a) 4
  b) 3
  c) 1
  d) 5

11. Which are quadrilaterals having four right angle at the point of intersection of diagonals?
  a) Square and rectangle
  b) Rhombus and square
  c) Rectangle and parallelogram
  d) Square and parallelogram

12. How many diagonals intersecting at center of the regular hexagon?
  a) 9
  b) 6
  c) 3
  d) 12

13. Find the smallest number by 245 must be divided to obtain perfect square?
  a) 5
  b) 3
  c) 7
  d) 6

14. Which one of the following is not perfect cube?
  a) 81
  b) 27
  c) 8
  d) 125

15. Angle sum of a convex polygon of 3 sides is _____degrees
  a) 180
  b) 90
  c) 60
  d) 30

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Section - B

16. A Merchantbuys books for Rs.2340, each book costs Rs.20 then how many books he bought?

17. Theupperface of the diamond is regular hexagon; draw the diagonals for the diamond?

18. Halfofanapple is eaten by Rahul and half of another half of that apple is eaten by priya then whatistheremaining part of apple?

19. Whatwillbethe tens digit in the cube of 5?

20. Usingthegiven pattern find the missing number?
    a.12+ 22+ 12= 6
    b.12+ 22+ 12+ 22= ____

    c.12+ 22+ 12+ 22+ 12= 11

21. Withoutadding find the sum of the following 1 +3 +5+7

22. Drawtherough sketch for the quadrilateral NEXT NE= 4.5 cm,EX= 7 cm ,
$$\llcorner N=90,° \qquad \angle X = 110°$$

23.Ratiobetween Maya and Sarah scored in Mathematics is 1:2 outof 100 then what will be their marks?

24.Find themissing value 52+ ____= 72

25.Find theVolume of the cube of sides 8 cm?

26.In computercenter, walk-ins in evening session is 10 % higher than morning session then what will bethe walk-ins in morning if it is 20 members in evening?

Section - C

27. Find the square root of 1936 by prime factorization method?

28. What could be the possible 'one's' digit of the square root of each of the following:
    a) 9966
    b) 3311
    c) 8055

29.Drawtwo examplesforsimplecurveandsimpleclosedcurvewithalphabeticalLetters?

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30. Why equilateral triangle, square and regular hexagon called regular polygon?

31. Lini scored 45 marks out of 50 and joy scored 70 out of 75. What is the ratio between those two girls?

32. Draw three examples for concave polygon?

33. Nithi bought 3 golden fish for rupees 30, pavi bought 2 black fishes for Rs. 20,sri bought 4 small sharks for Rs.64. Draw the Pie chart for this data?

34. Aman got 20% hike in his salary. If his new salary in new company is 1, 33,113 rupees then find his current salary?

35. What is convex quadrilateral? Give real life example? How many diagonals are there?

36. Find x, $\frac{x}{2} - \frac{1}{3} = \frac{5}{6}$

37. Find the cube values of 9 and 11

Section- D

38. Draw the two convex polygon having 4 and 5 sides (use angle sum of polygon with n sides concept) and explain?

39. Mouya is building magic square (with building blocks), if she has 4 cm, 4 cm, 4 cm cuboids (building blocks) then how many cuboid she needs to make a perfect magic square?

40. Find the perfect cube by prime factorization method for the following?
    a) 729
    b) 5832

41. Alphabets A, B, …, J written on the flash cards and kept in fish bowl. Arun is asked to take one flash card from the fish bowl. What is the probability of getting letters in his name?

42. Create the font for the numbers 0, 1, 2, …, 9 and those font having the same number of angles.
    Example: The number zero has zero angles. That is no angle for the number zero.