

DEVAMATHA CMI PUBLIC SCHOOL
HALF YEARLY EXAMINATION 2017 -18
MATHEMATICS

Std. VI

Time : 3 h.

Marks : 80

General Instructions :

1. All questions are compulsory.
2. The question paper consists of 35 questions divided into 4 sections A,B,C,D
3. Section A consists of 10 Multiple Choice questions of 1 mark each.
4. Section B consists of 10 questions of 2 marks each.
5. Section C consists of 10 questions of 3 marks each.
5. Section D consists of 5 questions of 4 marks each.

PART - A

I Choose the correct answer from the options given below :

(1x10=10)

1. The successor of 2013499
 a) 2013498 b) 2013497 c) 2013500 d) 2013400
2. $(-3) + 7 =$ _____.
 a) 10 b) 4 c) -10 d) -4
3. Which of the following angles is an acute angle?
 a) 180° b) 23° c) 125° d) 90°
4. The triangle having 3 unequal sides is called_____
 a) Equilateral triangle b) Scalene triangle
 c) Right -angled triangle d) Isosceles triangle
5. The measure of a complete angle is _____.
 a) 100° b) 90° c) 180° d) 360°
6. The collection of negative numbers, positive numbers and zero are called _____.
 a) Whole Numbers b) Integers c) Natural Numbers d) none of these
7. HCF of 2 Co-prime numbers is _____.
 a) 0 b) -1 c) 1 d) 2
8. The smallest odd Composite Number is _____.
 a) 1 b) 4 c) 9 d) 15
9. Roman Numeral for 63 is
 a) XXXVI b) LXVI c) LXIII d) LXIX

10. Which of the following will not represent '0'?

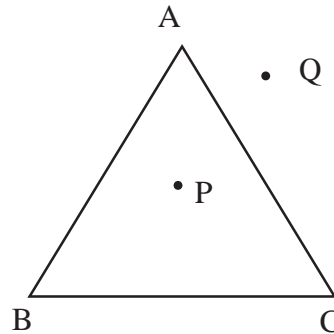
- a) $0 + 0$ b) $\frac{5-5}{2}$ c) 0×1 d) $1 + 0$

PART - B

(2x10=20)

11. Use the figure to name:

- a) a triangle
b) An interior point
c) An exterior point
d) 3 points on the boundary.



12. Find all the factors of the following numbers:

- a) 12 b) 23

13. Find the Value using Distributive Property:

- a) 4×108 b) $824 \times 60 + 824 \times 40$

14. Write the number names using Indian System and International System of Numeration:

- a) 3569487

15. What are Co-primes? Write any 2 pairs of Co-primes.

16. Find the sum:

- a) $(-420) + (-120)$
b) $(-68) + 8$

17. Draw a polygon with 4 sides and shade its interior :

18. Find the HCF of:

- a) 18, 48
b) 12, 45, 75

19. In one state, the number of bicycles sold in the year 2002 - 2003 was 7,43,000. In the year 2003- 2004, the number of bicycles sold was 8,00,100. In which year more bicycles sold? And how many more?

20. Find $10 \div 3$ using the number line.

Part - C

21. Estimate each of the following to the nearest hundreds.
- $2806 + 359$
 - $623 - 287$
 - 213×363
22. Find the prime factorisation of:
- 125
 - 36
 - 560
23. Find the value of:
- $(-13) + 162$
 - $50 - (-23)$
 - $(-8) + (-11) + (-13)$
24. Find the LCM of:
- 48, 72, 108
 - 25, 50
25. Determine the smallest 3 digit number which is exactly divisible by 6, 8, and 12.
26. Using divisibility test, check whether the following numbers are divisible by 6.
- 40632
 - 2843
 - 301296
27. Draw 2 examples for open curves and 2 examples for closed curves.
28. A taxi driver filled his car petrol tank with 50 litres of petrol on Monday. he filled the tank with 30 litres of petrol on Tuesday. If the petrol costs ₹ 52 per litre, how much did he spend in all on petrol?
29. Name the types from following triangles:
- $\triangle ABC$ with $AB = 8.7\text{cm}$ $BC = 6\text{cm}$ $AC = 7\text{cm}$
 - $\triangle PQR$ with $PQ = QR = PR = 5\text{ cm}$
 - $\triangle LMN$ with $m\angle N = 90^\circ$

30. Write the Roman Numerals for:

- a) 95 b) 72 c) 29

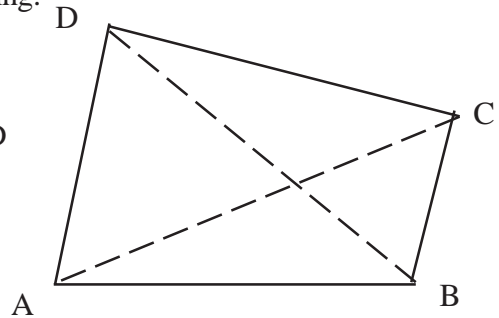
Part - D

31. Using divisibility test, check Whether the following numbers are divisible by 11: (4x5=20)

- a) 34258 b) 70169308 c) 17786 d) 12322

32. Look at the adjoining figure and answer the following:

- a) Name the sides of the polygon ABCD
b) Name the 2 diagonals of the polygon ABCD
c) Are AB and CD adjacent sides?
d) Are AB and AD adjacent sides?
e) Name 4 angles of the polygon ABCD.



33. Renu purchases two bags of fertiliser of weights 75kg and 69kg. Find the maximum value of weight which can measure the weight of the fertiliser exact number of times.

34. Draw $\angle ABC = 90^\circ$ and $\angle XYZ = 150^\circ$ and mention the type of angle also.

35. The distance between the school and the house of Riya is 1 km 800m. Every day she walks both ways. Find the total distance covered by her in 5 days.

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