

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
SAMPLE PAPER 01 FOR HALF YEARLY EXAM (2017-18)

SUBJECT: MATHEMATICS

BLUE PRINT FOR HALF YEARLY EXAM: CLASS VI

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Knowing our Numbers	1(1)	1(2)	1(3)	1(4)	4(10)
Whole Numbers	--	1(2)	1(3)	1(4)	3(9)
Playing with numbers	1(1)	--	1(3)	2(8)	4(12)
Basic Geometric Ideas	--	1(2)	2(6)	--	3(8)
Understanding Elementary ideas	1(1)	1(2)	1(3)	1(4)	4(10)
Integers	1(1)	1(2)	1(3)	1(4)	4(10)
Fractions	1(1)	--	2(6)	1(4)	3(11)
Decimals	1(1)	1(2)	1(3)	1(4)	4(10)
Total	6(6)	6(12)	10(30)	8(32)	30(80)

MARKING SCHEME FOR HALF YEARLY EXAM

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	6	08
SA – I	2	6	12
SA – II	3	10	30
LA	4	8	32
GRAND TOTAL			80

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SUBJECT: MATHEMATICS

MAX. MARKS : 80

CLASS : VI

DURATION : 3 HRS

General Instructions:

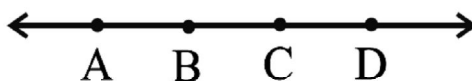
- (i). All questions are compulsory.
- (ii). This question paper contains **30** questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 6 questions of **1 mark** each. **Section B** comprises of 6 questions of **2 marks** each. **Section C** comprises of 10 questions of **3 marks** each and **Section D** comprises of 8 questions of **4 marks** each.
- (iv). Use of Calculators is not permitted

SECTION – A

1. Write the names of number 87595762 according to Indian System of Numeration.
2. Find the common factors of 20 and 28
3. What does the angle made by the hour hand of the clock look like when it moves from 5 to 7.
4. What fraction of a day is 8 hours?
5. Write the following numbers with appropriate signs : (a) 100 m below sea level. (b) 25°C above 0°C temperature.
6. Write each of the following as decimals : (a) Two ones and five-tenths (b) Thirty and one-tenth

SECTION – B

7. Find the value of the following:
(a) $297 \times 17 + 297 \times 3$ (b) $54279 \times 92 + 8 \times 54279$
8. What fraction of a clockwise revolution does the hour hand of a clock turn through, when it goes from (a) 3 to 9 (b) 4 to 7?
9. What should be added to 37.28 to obtain 46.8?
10. Estimate the product 5981×4428 by rounding off each number to the nearest (i) tens (ii) hundreds
11. Name the line given in all possible (twelve) ways, choosing only two letters at a time from the four given.

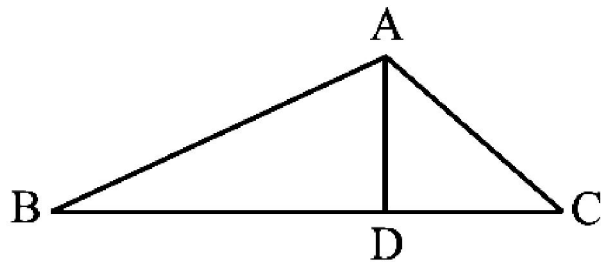


12. Represent the following numbers on a number line : (a) + 5 (b) – 10

SECTION – C

13. Write in Roman Numerals (a) 69 (b) 98 (c) 55
14. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
15. Reduce the following fractions to simplest form : (i) $\frac{48}{60}$ (ii) $\frac{84}{98}$
16. Jaidev takes $2\frac{1}{5}$ minutes to walk across the school ground. Rahul takes $\frac{7}{4}$ minutes to do the same. Who takes less time and by what fraction?
17. Find the product using suitable properties.
(a) 738×103 (b) 854×102

18. (a) Identify three triangles in the figure.
(b) Write the names of seven angles.
(c) Write the names of six line segments.

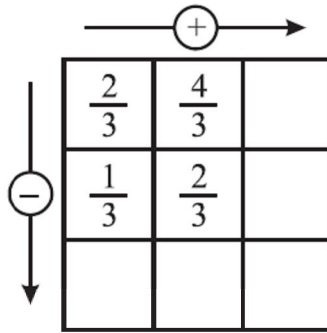


19. Find
(a) $(-7) - 8 - (-25)$
(b) $(-13) + 32 - 8 - 1$
(c) $(-7) + (-8) + (-90)$
20. Using divisibility tests, determine which of following two numbers are divisible by 6: (a) 297144
(b) 1258
21. Gorang purchased 2kg 280g apples, 3kg 375g bananas, 225g grapes and 5kg 385g oranges. Find the total weight of the fruits purchased by Gorang in kg.
22. Name the types of following triangles :
(a) Triangle with lengths of sides 7 cm, 8 cm and 9 cm.
(b) $\triangle ABC$ with $AB = 8.7$ cm, $AC = 7$ cm and $BC = 6$ cm.
(c) $\triangle PQR$ such that $PQ = QR = PR = 5$ cm.

SECTION – D

23. The number of sheets of paper available for making notebooks is 75,000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the paper available?
24. Express as kg using decimals: (a) 2 g (b) 100 g (c) 3750 g (d) 12 kg 150g
25. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps? What are the benefits of morning walk?
26. Find the least number which when divided by 6, 15 and 18 leave remainder 5 in each case.

27. Complete the addition-subtraction box.



28. A taxidriver filled his car petrol tank with 40 litres of petrol on Monday. The next day, he filled the tank with 50 litres of petrol. If the petrol costs Rs 44 per litre, how much did he spend in all on petrol?

29. Using the number line write the integer which is : (a) 3 more than 5 (b) 5 more than -5

30. How many right angles do you make if you start facing
(a) south and turn clockwise to west?
(b) north and turn anti-clockwise to east?
(c) west and turn to west?
(d) south and turn to north?

