

**KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION**  
**SAMPLE PAPER 03 FOR HALF YEARLY EXAM (2017-18)**

**SUBJECT: MATHEMATICS**

**BLUE PRINT FOR HALF YEARLY EXAM: CLASS VI**

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

**MARKING SCHEME FOR HALF YEARLY EXAM**

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

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**SUBJECT: MATHEMATICS**  
**CLASS : VI**

**MAX. MARKS : 80**  
**DURATION : 3 HRS**

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**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
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**SECTION – A**

1. Write the successor of 100199.
2. Find the HCF of 15, 25 and 30.
3. What is the measure of  $\frac{3}{4}$  of a revolution?
4. Write  $\frac{129}{8}$  as a mixed fraction.
5. The length of a young gram plant is 65 mm. Express its length in cm.
6. Which number will we reach if we move 5 numbers to the left of 0.

**SECTION – B**

7. Find the value of the following:  
(a)  $297 \times 17 + 297 \times 3$  (b)  $3845 \times 5 \times 782 + 769 \times 25 \times 218$
8. Express each of the following numbers as the sum of three odd primes: (a) 21 (b) 53
9. Samson travelled 5 km 52 m by bus, 2 km 265 m by car and the rest 1km 30 m he walked. How much distance did he travel in all?
10. Insert commas suitably and write the names according to International System of Numeration :  
(a) 78921092 (b) 7452283
11. Find the number of right angles turned through by the hour hand of a clock when it goes from  
(a) 3 to 6 (b) 2 to 8 (c) 5 to 11 (d) 10 to 1
12. Represent the following numbers on a number line : (a) + 3 (b) – 9

**SECTION – C**

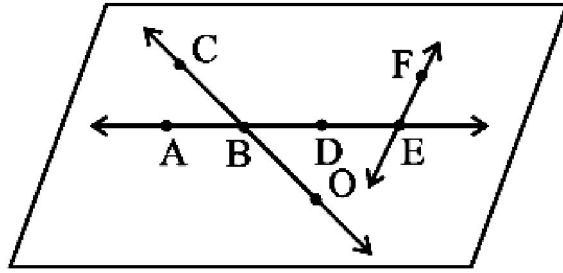
13. Write in Roman Numerals (a) 53 (b) 72 (c) 60.

14. Find the product by suitable rearrangement:

- (a)  $125 \times 40 \times 8 \times 25$  (b)  $285 \times 5 \times 60$

15. Use the figure to name :

- (a) Line containing point E.  
 (b) Line passing through A.  
 (c) Line on which O lies  
 (d) Two pairs of intersecting lines.



16. Asha and Samuel have bookshelves of the same size partly filled with books. Asha's shelf is  $\frac{5}{6}$  th full and Samuel's shelf is  $\frac{2}{5}$  th full. Whose bookshelf is more full? By what fraction?

17. Solve:  $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$

18. Using divisibility tests, determine which of following two numbers are divisible by 6: (a) 438750 (b) 1790184

19. Draw a rough sketch of a quadrilateral KLMN. State, (a) two pairs of opposite sides, (b) two pairs of opposite angles, (c) two pairs of adjacent sides.

20. Express as kg using decimals. (a) 2 g (b) 100 g (c) 3750 g

21. Draw a rough sketch of a regular hexagon. Connecting any three of its vertices, draw a triangle. Identify the type of the triangle you have drawn.

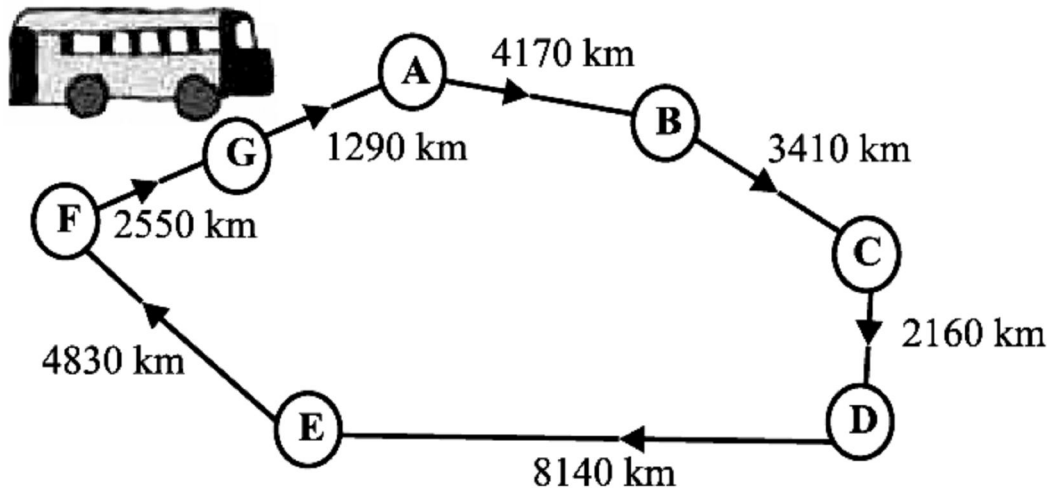
22. Find the value of the following:

- (a)  $(30) + (-23) + (-63) + (+55)$   
 (b)  $(-9) + (+4) + (-6) + (+3)$

### SECTION – D

23. A bus started its journey and reached different places with a speed of 60 km/hour. The journey is shown below figure.

- (i) Find the total distance covered by the bus, if it starts from A and returns back to A.  
 (ii) Can you find the difference of distances from C to D and D to E?



24. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can measure the diesel of the three containers exact number of times.
25. Use number line and add the following integers : (a)  $(-1) + (-2) + (-3)$  (b)  $(-2) + 8 + (-4)$
26. It was estimated that because of people switching to Metro trains, about 33000 tonnes of CNG, 3300 tonnes of diesel and 21000 tonnes of petrol was saved by the end of year 2007. Find the fraction of :
- the quantity of diesel saved to the quantity of petrol saved.
  - the quantity of diesel saved to the quantity of CNG saved.
27. 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? How many litres of petrol can be filled with the amount of Rs. 3300?
28. Find the sum in each of the following :
- $0.007 + 8.5 + 30.08$
  - $15 + 0.632 + 13.8$
  - $27.076 + 0.55 + 0.004$
  - $25.65 + 9.005 + 3.7$
29. Where will the hand of a clock stop if it
- starts at 12 and makes  $\frac{1}{2}$  of a revolution, clockwise?
  - starts at 2 and makes  $\frac{1}{2}$  of a revolution, clockwise?
  - starts at 5 and makes  $\frac{1}{4}$  of a revolution, clockwise?
  - starts at 5 and makes  $\frac{3}{4}$  of a revolution, clockwise?
30. Draw a rough figure and label suitably in each of the following cases:
- Point P lies on  $\overline{AB}$ .
  - $\overline{XY}$  and  $\overline{PQ}$  intersect at M.
  - Line  $l$  contains E and F but not D.
  - $\overline{OP}$  and  $\overline{OQ}$  meet at O.