

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
PERIODIC TEST-02 EXAM SAMPLE PAPER 03 (2017-18)

SUBJECT: MATHEMATICS

BLUE PRINT FOR PERIODIC TEST-02 : CLASS VIII

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Rational Numbers	--	2(1)	--	--	2(1)
Linear equations in one variable	1(1)	--	--	--	1(1)
Understanding Quadrilaterals	1(1)	--	--	--	1(1)
Practical Geometry	--	2(1)	--	--	2(1)
Data Handlings	1(1)	--	--	--	1(1)
Squares and Square Roots	1(1)	--	--	--	1(1)
Cubes and Cube Roots	--	2(1)	--	--	2(1)
Comparing Quantities	--	2(1)	--	--	2(1)
Algebraic Expressions	--	--	3(1)	4(1)	7(2)
Visualizing Solid Shapes	--	--	3(1)	4(1)	7(2)
Mensuration	--	--	3(1)	4(1)	7(2)
Exponents and Powers	--	--	3(1)	4(1)	7(2)
Total	4(4)	8(4)	12(4)	16(4)	40(16)

MARKING SCHEME FOR PERIODIC TEST – 02 EXAM

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	4	04
SA – I	2	4	08
SA – II	3	4	12
LA	4	4	16
GRAND TOTAL			40

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CLASS : VIII

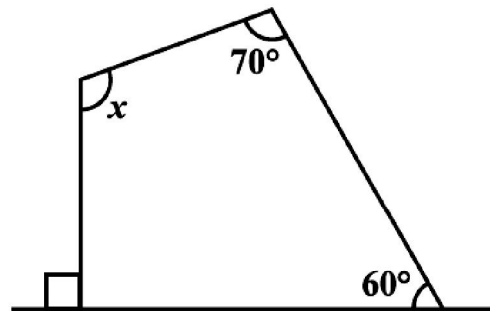
MAX. MARKS : 40
DURATION : 1½HRS

General Instructions:

- (i). All questions are compulsory.
- (ii). This question paper contains **16** questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 4 questions of **1 mark** each. **Section B** comprises of 4 questions of **2 marks** each. **Section C** comprises of 4 questions of **3 marks** each and **Section D** comprises of 4 questions of **4 marks** each.
- (iv). Use of Calculators is not permitted

SECTION – A

1. Solve: $7x - 9 = 16$.
2. Find x in the adjoining figure:
3. Area of a square plot is 2304 m^2 . Find the side of the square plot.
4. Find the cube of 0.5.



of

SECTION – B

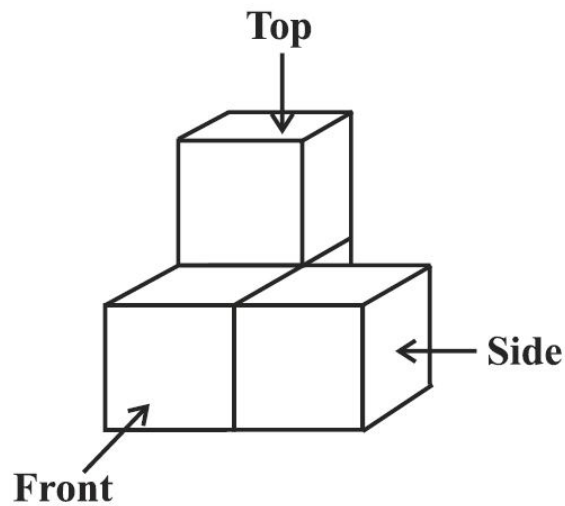
5. Find two rational numbers between $\frac{-3}{2}$ and $\frac{5}{3}$.
6. A man got a 10% increase in his salary. If his new salary is Rs 1,54,000, find his original salary.
7. Construct a quadrilateral JUMP where $JU = 3.5 \text{ cm}$, $UM = 4 \text{ cm}$, $MP = 5 \text{ cm}$, $PJ = 4.5 \text{ cm}$ and $PU = 6.5 \text{ cm}$
8. The following marks (out of 50) obtained in Mathematics by 60 students of Class VIII:
21, 10, 30, 22, 33, 5, 37, 12, 25, 42, 15, 39, 26, 32, 18, 27, 28, 19, 29, 35, 31, 24, 36,
18, 20, 38, 22, 44, 16, 24, 10, 27, 39, 28, 49, 29, 32, 23, 31, 21, 34, 22, 23, 36, 24,
36, 33, 47, 48, 50, 39, 20, 7, 16, 36, 45, 47, 30, 22, 17.

Using tally marks make a frequency table with intervals as 0–10, 20–30 and so on.

SECTION – C

9. In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m. Find the total cost of painting the curved surface area of all pillars at the rate of Rs 8 per m^2 .
10. Find m so that $(-3)^{m+1} \times (-3)^5 = (-3)^7$

11. Draw the front view, side view and top view of the below objects.



12. Simplify: (i) $(x + y)(2x + y) + (x + 2y)(x - y)$
(ii) $(x + y)(x^2 - xy + y^2)$

SECTION - D

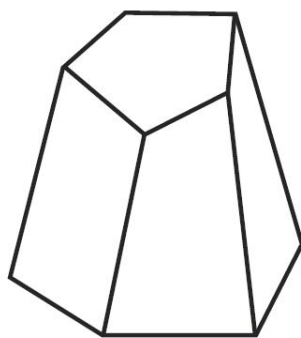
13. Express the following numbers in standard form.

- (i) 0.00000000000085
- (ii) 0.000000000000942
- (iii) 6020000000000000
- (iv) 31860000000

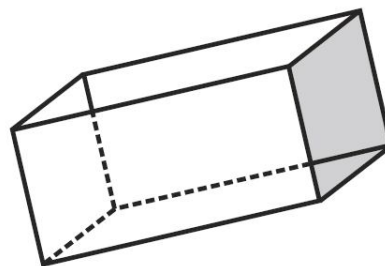
14. Using identities, evaluate (i) 78×82 (ii) 8.9^2

15. Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is 108 m^3 , find the number of hours it will take to fill the reservoir.

16. Verify Euler's formula for these solids:



(i)



(ii)