

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
PERIODIC TEST-02 EXAM SAMPLE PAPER 01 (2017-18)

SUBJECT: MATHEMATICS

BLUE PRINT FOR PERIODIC TEST-02 : CLASS VII

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Integers	1(1)	--	--	--	1(1)
Fractions and Decimals	--	2(1)	--	--	2(1)
Data Handlings	--	2(1)	--	--	2(1)
Simple Equations	1(1)	--	--	--	1(1)
Lines and Angles	1(1)	--	--	--	1(1)
Triangle and its properties	1(1)	--	--	--	1(1)
Congruence of Triangles	--	2(1)	--	--	2(1)
Comparing Quantities	--	2(1)	--	--	2(1)
Rational Numbers	--	--	3(1)	--	3(1)
Practical Geometry	--	--	3(1)	4(1)	7(2)
Perimeter and Area	--	--	3(1)	8(2)	11(3)
Algebraic Expressions	--	--	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

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
PERIODIC TEST-02 EXAM SAMPLE PAPER 01 (2017-18)

SUBJECT: MATHEMATICS
CLASS : VII

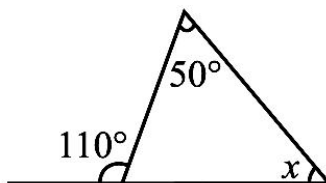
MAX. MARKS : 40
DURATION : 1½HRS

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. Evaluate: $(-31) \div [(-30) + (-1)]$
2. Solve: $12p - 5 = 25$
3. Find the angle which is equal to its supplement.
4. Find angle x in the adjoining figure:



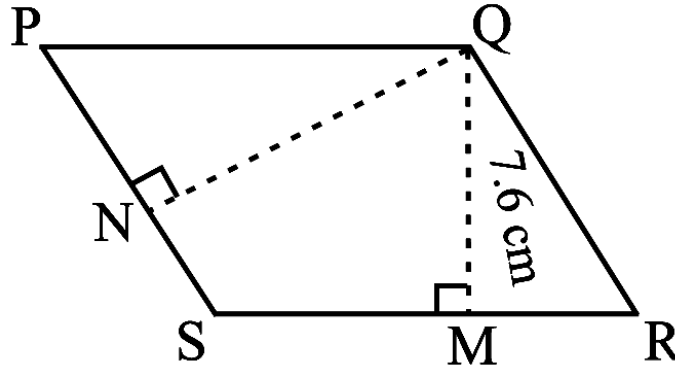
SECTION – B

5. The runs scored in a cricket match by 11 players is as follows:
6, 15, 120, 50, 100, 80, 10, 15, 8, 10, 15
Find the mean of this data.
6. A school team won 6 games this year against 4 games won last year. What is the per cent increase?
7. Find $\frac{3}{4}$ of (i) 36 (ii) 64
8. If $\triangle ABC \cong \triangle FED$ under the correspondence $ABC \leftrightarrow FED$, write all the corresponding congruent parts of the triangles.

SECTION – C

9. Represent these numbers on the number line. (i) $\frac{7}{4}$ (ii) $-\frac{5}{6}$ (iii) $\frac{4}{7}$ (iv) $\frac{9}{4}$

10. When $a = 0$, $b = -1$, find the value of the given expressions: (i) $2a^2b + 2ab^2 + ab$ (ii) $a^2 + ab + 2$
11. Construct the right angled ΔPQR , where $m\angle Q = 90^\circ$, $QR = 8\text{cm}$ and $PR = 10\text{ cm}$.
12. PQRS is a parallelogram (see the below). QM is the height from Q to SR and QN is the height from Q to PS. If $SR = 12\text{ cm}$ and $QM = 7.6\text{ cm}$. Find: (a) the area of the parallelogram PQRS (b) QN, if $PS = 8\text{ cm}$



SECTION – D

13. From the sum of $4 + 3x$ and $5 - 4x + 2x^2$, subtract the sum of $3x^2 - 5x$ and $-x^2 + 2x + 5$.
14. A path 1 m wide is built along the border and inside a square garden of side 30 m. Find:
 (i) the area of the path
 (ii) the cost of planting grass in the remaining portion of the garden at the rate of Rs 40 per m^2 .
15. Construct ΔABC , given $m\angle A = 60^\circ$, $m\angle B = 30^\circ$ and $AB = 5.8\text{ cm}$.
16. Two cross roads, each of width 5 m, run at right angles through the centre of a rectangular park of length 70 m and breadth 45 m and parallel to its sides. Find the area of the roads. Also find the cost of constructing the roads at the rate of Rs 105 per m^2 .