

DAV PUBLIC SCHOOLS, ODISHA ZONE

HALF YEARLY EXAMINATION, SUBJECT – MATHEMATICS, CLASS: VI

BLUE PRINT OF QUESTION PAPER

Sl. No	Chapters	MCQs (1 Mark)	Fill in the Blanks (1 Mark)	VSA (1Mark)	SA-I (2 Marks)	SA-II (3 Marks)	LA (4 Marks)	Total
1	Natural Numbers and Whole numbers	2	1	1	1	1	1	13
2	Factors and Multiples	2	1	2	1	1	1	14
3	Integers	2	1	1	1	1	1	13
4	Ratio proportion and unitary method	1	2	0	0	2	1	13
5	Basic Geometrical Concepts	1	0	0	0	1	1	8
6	Line Segments	0	0	0	1	1	0	5
7	Angles	2	0	1	1	1	0	8
8	Transversal and Pairs of lines	0	0	0	1	0	1	6
TOTAL		1×10=10	1 × 5 = 5	1 × 5 = 5	2×6 =12	3×8=24	4×6=24	80(40)

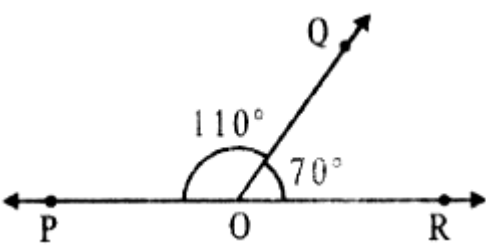
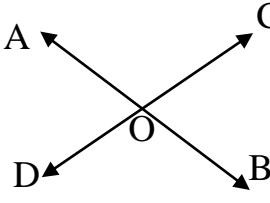
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HALF YEARLY EXAMINATION, CLASS: VI, SUBJECT: MATHEMATICS

QUESTION WISE ANALYSIS

Sl. No.	Chapters / units	Forms of Question (LA, SA-II, SA-I, VSA, Fill in the blanks, MCQ)	Marks Allotted	(R), (U), (A), (H), (E)
1	Natural Numbers and Whole numbers	MCQ	1	R
2	Natural Numbers and Whole numbers	MCQ	1	R
3	Factors and Multiples	MCQ	1	R
4	Factors and Multiples	MCQ	1	R
5	Integers	MCQ	1	U
6	Integers	MCQ	1	U
7	Ratio proportion and unitary method	MCQ	1	U
8	Basic Geometrical Concepts	MCQ	1	R
9	Angles	MCQ	1	R
10	Angles	MCQ	1	R
11	Natural Numbers and Whole numbers	Fill in the blanks	1	U
12	Factors and Multiples	Fill in the blanks	1	R
13	Integers	Fill in the blanks	1	R
14	Ratio proportion and unitary method	Fill in the blanks	1	U
15	Ratio proportion and unitary method	Fill in the blanks	1	U
16	Natural Numbers and Whole numbers	VSA	1	R
17	Factors and Multiples	VSA	1	R
18	Factors and Multiples	VSA	1	U
19	Integers	VSA	1	U
20	Angles	VSA	1	U

21	Natural Numbers and Whole numbers	SA – I	2	R
22	Factors and Multiples	SA – I	2	U
23	Integers	SA – I	2	A
24	Line Segments	SA – I	2	R
25	Angles	SA – I	2	Creation/HOTs
26	Transversal and Pairs of lines	SA – I	2	A
27	Natural Numbers and Whole numbers	SA - II	3	A
28	Factors and Multiples	SA - II	3	A
29	Integers	SA - II	3	U
30	Ratio proportion and unitary method	SA - II	3	A
31	Ratio proportion and unitary method	SA - II	3	A
32	Basic Geometrical Concepts	SA - II	3	R
33	Line Segments	SA - II	3	A
34	Angles	SA - II	3	HOTs
35	Natural Numbers and Whole numbers	LA	4	A
36	Factors and multiples	LA	4	A
37	Integers	LA	4	A
38	Ratio proportion and unitary method	LA	4	HOTs
39	Basic Geometrical Concepts	LA	4	R
40	Transversal and Pairs of lines	LA	4	R

24	(a) $AC - AE = EC$ (b) $ED + BE = BD$	1 1	155
25	(a)  (b) 	1 1	165,166
26	$\angle BGE$ and $\angle CHF$ are not corresponding angles. They are called alternate angles.	1 1	178
27	Weight carried by tempo = 482×15 kg Weight carried by Van = 518×15 kg Total weight carried by both tempo and Van = $482 \times 15 + 518 \times 15$ $= 15(482 + 518)$ $= 15 \times 1000 = 15000$ kg	0.5 0.5 1 1	13
	OR Largest 6-digit number = 999999 $999999 \div 45$, Quotient = 22222, Remainder = 9 Required no. = $999999 - 9 = 999990$	1 1 1	15
28	Length, breadth and height of a room are 828cm, 675 cm, 450cm respectively. Longest tape required to measure the three dimensions of the room = HCF of 828cm, 675 cm, 450cm HCF of 828cm, 675 cm, 450cm = 75 cm Hence, the required longest tape = 75 cm	1 2	36
	OR Product of two numbers = HCF \times LCM \therefore Other number = $\frac{HCF \times LCM}{\text{First number}} = \frac{13 \times 1989}{117} = 221$	1 2	40
29	$ (-400) + 781 + (-1400) + (-81) + 300 $ $= (-400) + (-1400) + (-81) + 300 + 781 $ $= (-1881) + 1081 $ $= (-800) = 800$	1 1 1	73
30	Here, we have to find out if 36, 90, 90 and 75 are in proportion. Product of extremes = $36 \times 75 = 2700$ Product of means = $90 \times 90 = 8100$ So, they are not in continued proportion.	1 1 1	84
31	Distance travelled by scooter in 3 hours = 120 km Speed of scooter = $\frac{\text{Distance}}{\text{Time}} = \frac{120}{3} = 40$ km/h Distance travelled by train in 2 hours = 120 km Speed of train = $\frac{\text{Distance}}{\text{Time}} = \frac{120}{2} = 60$ km/h \therefore Ratio of their speeds = $\frac{40}{60} = \frac{2}{3} = 2:3$	1 1 1	NCERT EXEMPLAR
	OR		

39	(a) A – D – B, A – F – C (Any relevance answer) (b) Point F (c) Line m, r, p (d) (p, l), (n, r) (Any other correct answer)	1 1 1 1	142
40	(a) $\angle 5$ (b) $\angle 3, \angle 4, \angle 5, \angle 6$ (Any two) (c) $\angle 1, \angle 7$ or $\angle 2, \angle 8$ (d) $\angle 7$	1 1 1 1	179