



Indian School Al Wadi Al Kabir
Mid Term Revision Question Bank (2026-27)
MATHEMATICS
 Class: VII

General Instructions:

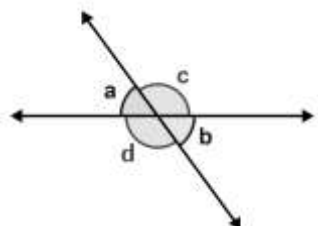
Section A: Multiple Choice Questions & Source based Question

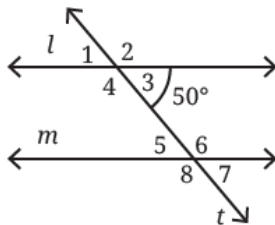
Section B: Short Answer Questions of 2 marks each

Section C: Long Answer Questions (Type – 1) of 3 marks each

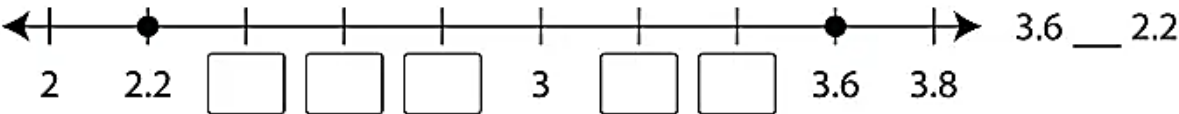
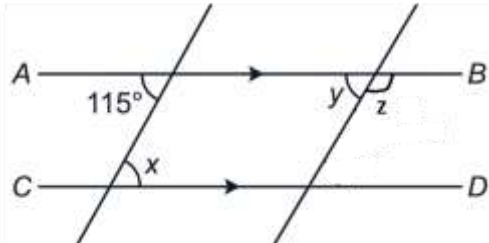
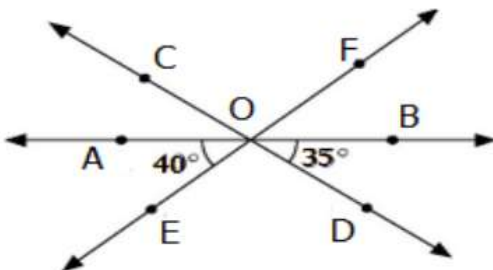
Section D: Long Answer Questions (Type – 2) & Case study Questions of 4 marks each.

SECTION A Multiple Choice Question									
1.	The length of a saree is 5.8 m. This is equal to:								1M
	A	5 tens and 8 tenth	B	5 ones and 8 hundredth	C	5 ones and 8 tenth	D	58 hundredth	
2.	1 crore equals:								1M
	A	10 million	B	1 million	C	1 billion	D	10 thousand	
3.	Which of the following decimal numbers lies between 6.5 and 6.6?								1M
	A	6.7	B	6.61	C	6.51	D	6.50	
4.	Identify a pair of like terms:								1M
	A	$(3x^2, 3a^2)$	B	$(4pq, -5qp)$	C	$(-2c, -2ac)$	D	$(5y, 5xy)$	
5.	If the cost of a pencil is ₹p and the cost of an eraser is ₹q, the total cost of 5 pencils and 2 erasers will be:								1M
	A	$5p + 2q$	B	$2p + 5q$	C	$5p - 2q$	D	$10pq$	
6.	The decimal number for $3000 + 50 + \frac{7}{100}$ is:								1M
	A	3005.07	B	3050.7	C	3050.07	D	30507	
7.	The place value of 8 in 45,83,06,400 is:								1M
	A	8	B	80,000	C	80,00,000	D	80,06,400	
8.	Riya walks $\frac{2}{3}$ km in $\frac{1}{4}$ hour. Her walking speed is:								1M
	A	$\frac{2}{3}$ km/h	B	$2\frac{2}{3}$ km/h	C	$\frac{2}{12}$ km/h	D	$\frac{3}{7}$ km/h	
9.	The simplified form of the expression $3a + 2b - (a + 8b)$								1M
	A	$12ab$	B	$2a + 10b$	C	$2a + 6b$	D	$2a - 6b$	

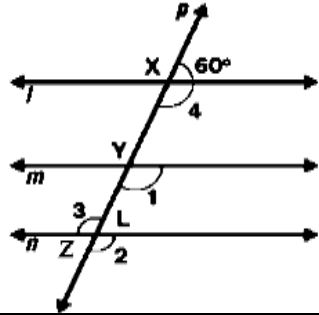
10.	The numeral for three hundred seventy million five thousand eighty is:								1M
	A	37,50,080	B	370,500,080	C	370,050,080	D	370,005,080	
11.	Name the property used in the expression: $78 + (-30) = (-30) + 78$								1M
	A	Closure property	B	Associative property	C	Commutative property	D	Distributive property	
12.	Which of the following expressions represents '5 less than 10 times a':								1M
	A	$10a - 5$	B	$5 - 10a$	C	$15a$	D	$(5 - 10) a$	
13.	When a transversal cuts two parallel lines, the interior angles on the same side of the transversal always added up to:								1M
	A	180°	B	190°	C	90°	D	100°	
14.	The product of a 5-digit number by a 5-digit number will have:								1M
	A	Exactly 5 digits	B	5 or 6 digits	C	9 or 10 digits	D	Exactly 10 digits	
15.	A school arranges an excursion using 9 buses, with 42 students in each bus. The total food expense is ₹15,120. Write an expression to find the cost of food per student.								1M
	A	$15120 + 9 \times 42$	B	$15120 \div (9 \times 42)$	C	$(15120 \div 9) \times 42$	D	$15120 \times (9 - 42)$	
16.	In the given figure $\angle a + \angle b = 80^\circ$, then find $\angle c + \angle d$.								1M
									
	A	180°	B	270°	C	280°	D	300°	
17.	Aarushi brought 36 oranges for a class activity. $\frac{7}{9}$ of the oranges were distributed during the first round. How many oranges were distributed?								1M
	A	20	B	24	C	25	D	28	
18.	How many terms are there in the expression $15 - 10 + 4 \times 2$								1M
	A	2	B	3	C	4	D	5	
19.	In a fraction challenge, students have to turn each given fraction upside down to find its reciprocal. One card shows $3\frac{2}{9}$. Then its reciprocal is:								1M
	A	$3\frac{9}{2}$	B	$\frac{9}{29}$	C	$\frac{2}{29}$	D	$\frac{29}{9}$	

20.	In figure, parallel lines l and m are intersected by the transversal t . Find $\angle 5$.							1M	
	A	50°	B	70°	C	130°	D	100°	
21.	Section B: Source based question- 5 Marks								
	Megha performed a science experiment in the Science lab on plant growth. She carefully measured the lengths of three roots she had grown in separate pots. She recorded the measurements as follows: Root A = 10.45 cm, Root B = 10.3 cm, Root C = 10.082 cm. Based on the given information, answer the following questions:								
I	Which of the following statements is correct?								1M
	A	Root B has grown the most	B	Root C has grown the least	C	Root B has grown more than Root A	D	Root A has grown 0.05 cm more than Root B	
II	How much longer is the longest root than the shortest root?								1M
	A	0.368 cm	B	0.037 cm	C	0.37 cm	D	0.15 cm	
III	The sum of length of all the three roots is:								1M
	A	20.75 cm	B	31.3 cm	C	30.832 cm	D	31.165 cm	
IV	In the decimal number 10.082, the number 8 is in:								1M
	A	Tenth place	B	Hundredth place	C	Hundreds place	D	Tens place	
V	The decimal number for 5 hundreds, 3 tens, 4 hundredth is:								1M
	A	53.4	B	503.34	C	530.04	D	503.04	
22.	A warehouse is preparing boxes of books for a school book fair. A worker has been assigned to pack all the boxes. In one hour, he manages to pack $\frac{13}{20}$ of the total boxes.								
I	What fraction of the boxes will the worker pack in $\frac{3}{4}$ hours?								1M
	A	$\frac{39}{40}$	B	$\frac{39}{80}$	C	$\frac{29}{40}$	D	$\frac{39}{20}$	

II	What fraction of the boxes will the worker pack in $\frac{4}{7}$ hours?								1M
	A	$\frac{13}{35}$	B	$\frac{52}{35}$	C	$\frac{13}{140}$	D	$\frac{39}{40}$	
III	If the worker continues at the same rate, how much work will be completed in $\frac{3}{2}$ hours?								1M
	A	$\frac{29}{40}$	B	$\frac{39}{80}$	C	$\frac{29}{35}$	D	$\frac{39}{40}$	
IV	Evaluate: $\frac{13}{20} \div \frac{26}{20}$								1M
	A	$\frac{3}{4}$	B	$\frac{1}{2}$	C	$\frac{2}{400}$	D	$\frac{3}{26}$	
V	The multiplicative inverse of $\left[\frac{11}{5} \times \frac{15}{22}\right]$ is:								1M
	A	$\frac{3}{2}$	B	$\frac{55}{110}$	C	$\frac{2}{5}$	D	$\frac{2}{3}$	
	Section B: Long Answer Questions -2 marks each								
23.	Find the sum: $3\frac{7}{10} + 5\frac{8}{10}$								2M
24.	The population of a city increased from 37,89,230 to 49,02,800 in 2 years. Find the increase in population during this period. Estimate the increase in population to the nearest thousand.								2M
25.	Arrange in the ascending order: $45 \div 5$, 9×3 , $75 - 50$, $24 + 6$, $32 - 3$								2M
26.	Express the following in decimal form: a) 4 tens and 8 tenths as a decimal. b) 3 hundreds, 5 tens and 6 hundredth								2M
27.	A gardener is making a rectangular flower bed. The length is $2\frac{2}{3}$ m and the width are $1\frac{3}{4}$ m. Find the area of the flower bed.								2M
28.	Simplify the given algebraic expression: $9h - (5 - 3h) + 10$								2M
29.	Evaluate using distributive property: a. $25 \times (15 - 12)$ b. $100 \times (25 + 40)$								2M
30.	Two corridors are represented by lines r and s. A passageway intersects both corridors as a transversal. The corresponding angles measure 90° and 100° . Are the corridors parallel? Justify your answer.								2M

	Section C: Long Answer Questions (Type – 1) of 3 marks each	
31.	Fill in the empty boxes with suitable decimal numbers on the number line and fill the blank space with >, < or = sign. 	3M
32.	A squirrel climbs 7 m up a tree each day but slips down 2 m at night. The tree branch is 22 m high. In how many days will the squirrel reach the branch?	3M
33.	A plant nursery has collected 3,58,625 varieties of seeds so far. If they aim to collect 4 lakh varieties, - How many more varieties do they need? - Estimate the number of varieties collected so far to the nearest lakh. - Write the target number of varieties of seeds in the International system.	3M
34.	Lines AB and CD are parallel and are intersected by two transversals. If one angle is 115°, find all the unknown angles x, y and z. Give reasons for each step. 	3M
35.	Solve: $15 \frac{3}{10} \frac{4}{100} - 4 \frac{5}{10} \frac{7}{100}$ $15.89 + 47.976 + 10.3$	3M
36.	The perimeter of a regular hexagon is 6 times the length of its sides. If 'p' represents the perimeter and 's' represents the side of the hexagon, - Write an expression to find the perimeter of the hexagon. - Find the perimeter of the hexagon when the side is 7 cm. - Write an expression for 'three-fourth of a number subtracted from ten'.	3M
37.	In a class room, $\frac{3}{5}$ of the students are girls. If there are 20 boys, find the number girls in the class.	3M
38.	In the given adjoining figure, three lines AB, CD and EF intersect each other at O. If $\angle AOE = 40^\circ$ and $\angle DOB = 35^\circ$, find $\angle COF$ $\angle COA$ $\angle BOF$ 	3M

	Section D: Long Answer Questions (Type – 2) & Case study of 4 marks each	
39.	If the present age of Shekhar is taken as x, answer the following questions: - What will be his age after 10 years, in terms of x? - Write an expression for his age 2 years back. - If his father's age is 2 less than 3 times his age, write an expression to express his father's age in terms of x. - Subtract: $20a + 13b - 27$ from $27a + 14b + 45$	4M
40.	A family is redecorating their living room. They buy 3 lamps at ₹1,250 each, 4 cushions at ₹650 each, and 6 photo frames at ₹375 each. - Write an arithmetic expression to represent the total amount spent on the decorations. - Calculate the total amount spent. - After the purchase, the price of each lamp increases by ₹100, while the price of each cushion decreases by ₹50. Write an arithmetic expression to represent the new total cost.	4M
41.	Rohit bought 750 g of grapes, 1500 g of apples and 1350 g oranges. - Express the weights of each of the fruits in Kg. - Find the total weight of fruits he bought in kilograms. - His bill amount was ₹356.75. If he paid ₹500 to the shopkeeper, find the balance amount he gets back.	4M
42.	A baker is preparing different types of cakes for a school celebration. To make one batch of Chocolate Cake, she needs $2\frac{2}{3}$ kg of flour. For Vanilla Cake, she needs $3\frac{1}{2}$ kg of flour per batch, while one batch of Fruit Cake requires $1\frac{3}{4}$ kg of flour. - The baker plans to make $3\frac{1}{2}$ batches of Chocolate Cake. How much flour will she need altogether? - The baker has $1\frac{3}{4}$ kg of flour to prepare 1 batch of fruit cake. If each packet holds $\frac{1}{4}$ kg of flour, how many complete packets can she make from the flour? - The baker has 7 kg of flour. Is this enough to make 2 batches of Vanilla Cake? Justify your answer with calculations.	4M
43.	Write an expression for the following situations in a school: - If there are 'n' classrooms, each with 35 students, write an expression for total strength of the school. - The total strength of the school is 1050. On a particular day, 's' students were absent in the school. Write an expression for the total number of students present on that day.	4M

	c) If the total number of boy student's 'b' in the school is 45 less than 2 times the number of girl students 'g', write an expression to represent the number of boys in the school. d) Find the number of classrooms 'n' in the school if the total strength is 1050 and each class has 35 students.	
44.	In given figure l, m and n are parallel lines intersected by transversal p at X, Y and Z respectively. Find $\angle 1$, $\angle 2$, $\angle 3$ and $\angle 4$. 	4M
45.	A large shoe factory produces 2,45,000 pairs of shoes in total every month. The factory has 8 production units, and each unit produces an equal number of pairs of shoes. During a special festival season, the factory increased its production by 35,000 pairs in one month. Out of the total shoes produced that month, 1,20,000 pairs were sold in India and 95,000 pairs were exported to other countries. The remaining pairs were stored in the warehouse. Answer the following questions: - How many pairs of shoes does each production unit produce in a normal month? - What was the total number of pairs of shoes produced by the factory during the festival season? - Find the total number of pairs of shoes sold in India and exported to other countries. - Find the remaining number of pairs of shoes stored in the warehouse.	4M
46.	CASE STUDY -1: A large defence training centre is preparing for a special security exercise. The centre has 2,45,000 soldiers registered for training. To support them, there are 1,25,000 helmets, 98,500 protective jackets, and 75,000 communication devices. Answer the following questions based on the given information:  - If 1000 registered soldiers stand in each row, how many rows of soldiers can be formed? - Find the number of more helmets required if each soldier should get a helmet.	4M

- c) If 25,000 more communication devices are purchased, what will be the total number of communication devices?
- d) Find the difference between place value of 9 in 98,500 and the place value of 5 in 75,000.

47. CASE STUDY - 2:

The Eco Club of a school is developing a beautiful garden on the school campus. The students decide to plant rose plants and sunflower plants. The number of rose plants planned is represented by $(5x + 4y + 6)$, while the number of sunflower plants is represented by $(3x + 2y + 9)$.



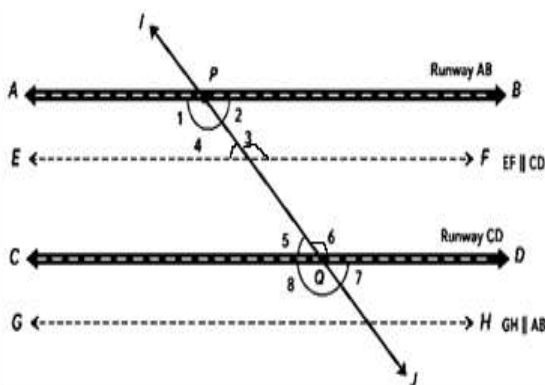
Based on the information, answer the following questions:

- I. Write an algebraic expression representing the total number of plants to be planted.
- II. If $x = 2$ and $y = 3$, find the total number of plants to be planted in the garden.
- III. If they plant $(2x - 3y + 2)$ tulips, then write the algebraic expression representing total number of plants to be planted.

48. CASE STUDY - 3:

At a busy airport runway, two main runways AB and CD are perfectly parallel. A connecting taxiway crosses both runways at points P and Q. To study the turning paths of aircraft, the airport engineer draws two imaginary lines: EF through point P, parallel to CD, and GH through point Q, parallel to AB. This creates several angles at the intersection points.

Answer the following questions based on the given information:



1. Identify a pair of corresponding angles.
2. Identify a pair of alternate interior angles.
3. If $\angle 2 = 70^\circ$, then find $\angle 6$
4. Find the angle supplementary to 145° .

Answers							
1	C	2	A	3	C	4	B
5	A	6	C	7	C	8	B
9	D	10	D	11	C	12	A
13	A	14	C	15	B	16	C
17	D	18	B	19	B	20	A
21	I. B II. A III. C IV. B V. C	22	I. B II. A III. D IV. B V. D	23	$9\frac{5}{10}$	24	11,13,570, 11,14,000
25	$45 \div 5,$ $75 - 50,$ $9 \times 3,$ $32 - 3,$ $24 + 6$	26	a) 40.8 b) 350.06	27	$4\frac{2}{3}m^2$	28	$12h + 5$
29	a. 75 b. 6500	30	No, r and s are not parallel, because their corresponding angles are not equal.	31	2.4, 2.6, 2.8, 3.2, 3.4 $3.6 > 2.2$	32	4 days
33	a) 41,375 b) 4,00,000 c) 400,000.	34	$x = 115^\circ$ $y = 115^\circ$ $z = 65^\circ$	35	a) $10\frac{7}{10}\frac{7}{100}$ b) 74.166	36	a) 6s b) 42 cm c) $10 - \frac{3}{4}x$
37	30 girls	38	(i) $\angle COF = 105^\circ$ (ii) $\angle COA = 35^\circ$ (iii) $\angle BOF = 40^\circ$	39	a) $x + 10$ b) $x - 2$ c) $3x - 2$ d) $7a + b + 72$		

40	i. $(3 \times 1250) + (4 \times 650) + (6 \times 375)$ ii. ₹ 8600 iii. ₹ 8700	41	a) Grapes – 0.75 kg, apples 1.5 kg oranges 1.35 kg b) 3.6 kg c) 143.25		
42	i. $9\frac{1}{3} kg$ ii. 7 packets iii. $3\frac{1}{2} \times 2 = \frac{7}{2} \times 2 = 7 kg$	43	a) 35 n b) $1050 - s$ c) $2g - 45$ d) 30 classrooms	44	$\angle 1 = 120^\circ$ $\angle 2 = 120^\circ$ $\angle 3 = 120^\circ$ $\angle 4 = 120^\circ$
45	a) 30625 b) 2,80,000 pairs c) 2,15,000 pairs d) 65,000 pairs	46	a) 245 rows b) 1,20,000 c) 1,00,000 d) 85,000		
47	I. $8x + 6y + 15$ II. 49 III. $10x + 3y + 17$	48	1. $\angle 1$ & $\angle 8$ or $\angle 2$ & $\angle 7$ 2. $\angle 2$ & $\angle 5$ or $\angle 1$ & $\angle 6$ 3. 110° 4. 35°		

***** *All the Best* *****