	INDIAN SCHOOL AL WADI AL KABIR

Mid-Term Examination Revision worksheet (2023-24)

Class: VII Sub: MATHEMATICS

Instructions:

Section A: Multiple Choice Question (Q.1 to Q.15) & Source based Question (Q.16)

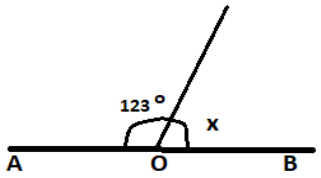
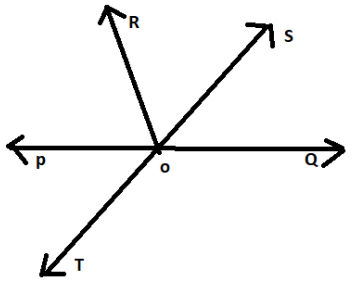
Section B: Short Answer Questions of 2 marks each (Q.17 to Q.21)

Section C: Long Answer Questions (Type – 1) of 3 marks each (Q.22 to Q.26)

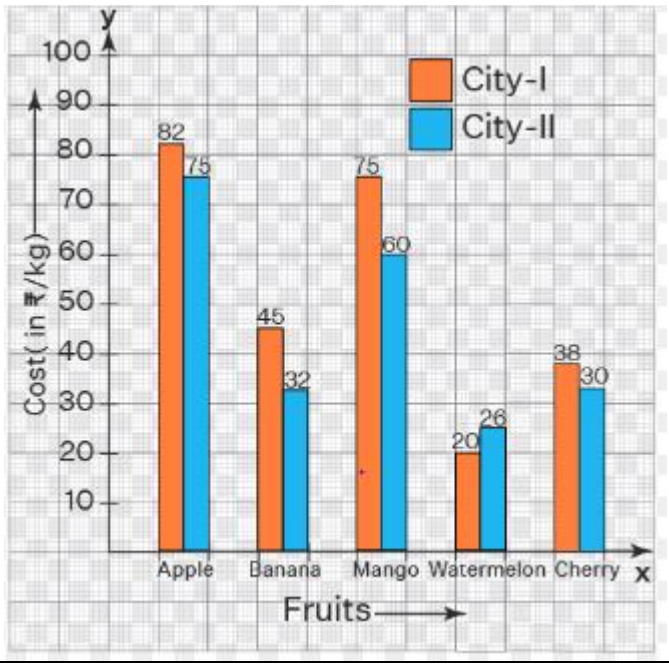
Section D: Long Answer Questions (Type – 2) of 4 marks each (Q.27 to Q.31)

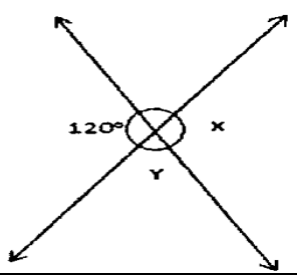
& Case study Question (Q.32 & Q.34) of 5 marks each.

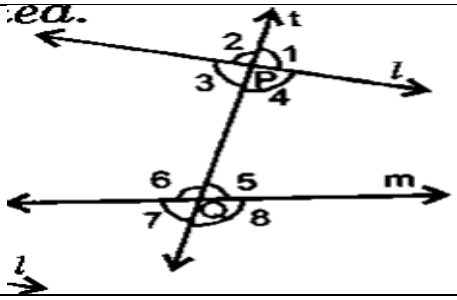
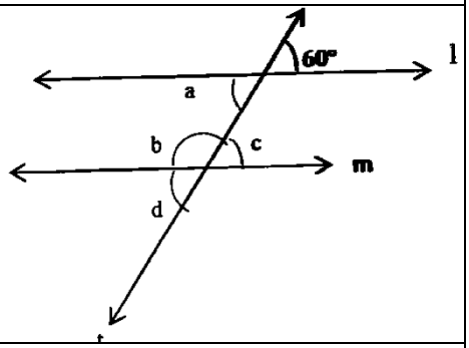
Section A: Multiple Choice Question (Q.1 to Q.15) of **1** mark each								
1.	Amal has 81 marbles. He gave $\frac{1}{9}$ of them to his friend. How many marbles left with him?							
	A	9	**B**	18	**C**	72	**D**	27
2.	The property used in $(25 \times -8) \times 45 = 25 \times (-8 \times 45)$							
	A	Associativity	**B**	Distributivity	**C**	Commutativity	**D**	Identity
3.	Which of the following pairs of angles do not form complementary angles?							
	A	72^0 and 38^0	**B**	45^0 and 45^0	**C**	53^0 and 37^0	**D**	$51^0$and 39^0
4.	The mode of 13,12,11,13,17,12,16,12,13, x,16 is 13, then the value of x is							
	A	12	**B**	13	**C**	16	**D**	17
5.	The value of $[(-36) \div 9] \times [(-15) \div (-5)]$							

	A	12	**B**	15	**C**	-12	**D**	-15
6.	The value of x if 3x −8= 13							
	A	$\frac{7}{3}$	**B**	7	**C**	-7	**D**	63
7.	The product of 1000 ×5.2 × 0.04							
	A	0.208	**B**	20.8	**C**	2080	**D**	208
8.	If AOB is a straight line, the value of x 							
	A	123^0	**B**	60^0	**C**	57^0	**D**	67^0
9.	Which of the following gives a negative integer?							
	A	(-12 +18)	**B**	(-7) x (-5)	**C**	7-(-13)	**D**	25 ÷ (-5)
10.	Naina painted on cloth piece of length $1\frac{4}{5}$ m long and $3\frac{1}{3}$ m wide. Then area covered by the cloth							
	A	$12m^2$	**B**	$10m^2$	**C**	$8m^2$	**D**	$6m^2$
11.	Based on the figure which of the are not adjacent angles? 							
	A	$\angle POR, \angle SOR$	**B**	$\angle POT, \angle QOT$	**C**	$\angle ROS, \angle POT$	**D**	$\angle TOP, \angle POR$
12.	The range of the data 35,45,89,45,52,31,27,63,87,31							

	A	62	**B**	60	**C**	45	**D**	57
13.	If (-1) multiplied 199 times, we will get							
	A	-99	**B**	-1	**C**	1	**D**	99
14.	The product of two numbers is 20.44, if one of the numbers is 7.3. find the other number							
	A	1.28	**B**	2.8	**C**	0.82	**D**	0.29
15.	The age of Amit's father is 3 more than 4 times his age and he is 49 years old. Which of the following equations represents the situation							
	A	4(x +3) =49	**B**	3(x +4) =49	**C**	4x +3 = 49	**D**	3x+4 = 49
Q16.	Source based Question -5 Marks Avani and Maya want to prepare fruit salad for food stall during children's day celebrations. As they are staying in different cities, they checked the prices of fruits in both cities. The double graph shows cost of different fruits. Observe the double graph and answer the following questions							
I	Avani bought 3kg mango from city I, how much she has to pay?							
	A	₹96	**B**	₹225	**C**	₹135	**D**	₹114
II	For ₹104, how many kilograms of watermelon can be bought from city II?							
	A	4	**B**	5	**C**	7	**D**	8

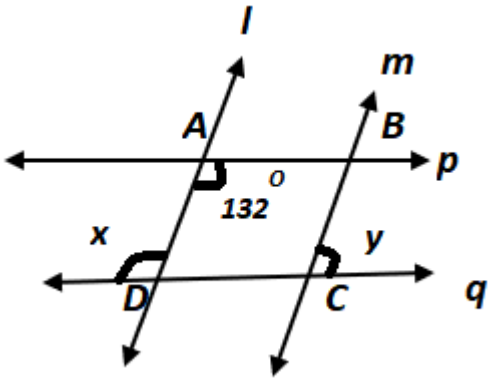


III	Maya bought apple and cherry 4 kilograms each from city I. How much she has to pay?							
	A	₹418	**B**	₹458	**C**	₹408	**D**	₹480
IV	What is the ratio of cost of mango per kilogram in city I and city II?							
	A	4:5	**B**	5:4	**C**	2:3	**D**	2:5
V	Which is the cheapest fruit in both cities ?							
	A	Banana	**B**	Cherry	**C**	Mango	**D**	Water melon
Section B: Short Answer Questions (Type – 1) of **2** marks each (Q.17 to Q.21)								
17.	Find the Median and mode of the following data: 13, 16, 12, 14, 19, 12, 14, 13, 14.							
18.	Simplify: $\left[\frac{2}{3} \times \frac{12}{8} \right] \div \frac{5}{8}$							
19.	Find x and y (give reasons) 							
20.	Write as equation: (a)Half of number added 7 gives 23 (b) 6 taken away from 5times y gives 60							
21.	Find: (1)2.113 x 100 (2)3.65 ÷10 (3) 2.87 x 1000 (4) 6.78 ÷ 1000							
Section C: Long Answer Questions (Type – 1) of **3** marks each (Q.22 to Q.26)								
22.	The temperature in a city at noon was 10^0 c. If it decreases at the rate of 2^0c per hour till mid night. (a) What would be the temperature at mid night? (b)At what time the temperature would be 2^0c?							

	(c) What would be the temperature at 7 p.m.?
23.	from the given figure identify the following (1) Pairs of alternate interior angles (2) Pairs of co interior angles (3) Pairs of vertically opposite angles 
24.	Ravi's father is 44 years old. He is 5 years older than three times Ravi's age. Find Ravi's age.
25.	The runs scored in a cricket match by 11 players are given 6,15,120,50,100,80,10,15,8,10,15 (1) Find the mean of this data. (2) How many players scored more than mean score?
26.	Mr. John bought some bags of cement, each weighing 49. 7kg.If the total weight of all bags is 1143.1kg, how many cement bags did he buy?
	Section D: Long Answer Questions (Type – 2) (Q.27 to Q.31) & Case study (Q.32 &34) of **5** marks each
27.	From figure find the values of a,b,c,d .Lines m and n are parallel and t is the transversal. 
28.	The sale of English and Hindi books in four consecutive years are given below .Draw double bar graph and answer the following questions.

Year	2006	2007	2008	2009
English	350	400	450	650
Hindi	500	450	600	550

29.	A club of 100 members , $\frac{3}{10}$ participated in art , $\frac{1}{10}$ participated in basket ball , 35 members in football and the remaining in cricket. (1) How many participated in art?

	(2) How many participated in basket ball? (3) How many participated in cricket? (4) What fraction of them participated in in foot ball?
30.	A car covers 6.2km by using 2.5litres of petrol. How much distance will it cover by using 1 litre petrol? (2) How much distance will it cover in 6 litres of petrol?
31.	In a school the number of girls is 50 more than the number of boys. If total number of students is 1070.find the number of boys and girls.
32.	**Case Study-1** A farmer has field ABCD formed by the parallel roads as shown in figure in which lines $m \parallel n$ *and* $p \parallel q$. His four cows are suffering from "mad cow disease". So, he tied the at the corners of ABCD Observe the figure and answer the following questions 1. If $\angle BAD = 132^0$, find $\angle ADC$ and $\angle ABC$ 2. Find the values of x and y. 3. Find the measures of angles which are complementary and vertically opposite angles. 
33.	**Case Study-2** A street fruit vendor has mangoes, apples and oranges in his fruit baskets. The number of mangoes is 5 less three times the number of oranges. The number of apples is 3 more than twice the number of oranges.  1) If the number of oranges is 73, find the number of mangoes. 2) How many apples are there? 3) Vendor sold the apples at a profit of ₹2 each and oranges at a loss of ₹3 each and mangoes at a profit of ₹1each, find overall profit or loss.

34.	**Case Study-3**  Manu and friends went to a carnival during their holidays 1) Manu and Syam participated in balloon dart game in which 5 points for bursting balloon and deduction of 2 points for missing shot. They paid for 10 shoots each. Manu burst 7 balloons and Syam burst 6 balloons. Find their scores. 2) Nitin lost 5 points to Mini while playing a card game. Mini then lost 20 points to Nitin in the second round. How many points did Mini lose in total? 3) Ryan was playing a game where catching a fish in the basket adds 10 points to his score. If he catches an octopus instead, he loses 5 points. What is his total if he catches 3 fish and 5 octopus.

ANSWERS

1	C) 72	2	A) Associativity	3	A)72^0 and 38^0	4	B)13	5	C) -12
6	B)7	7	D)208	8	C)57^0	9	D)25 ÷ (-5)	10	D) $6m^2$
11	$\angle ROS, \angle POT$	12	A)62	13	B) -1	14	B)2.8	15	C) 4x +3 = 49
16	I)₹225 II)4 III)5:4	17	Both mode and median =14	18	$1\frac{3}{5}$	19	X=120^0 y=60^0	20	a)$\frac{x}{2}$ +7=23 b)5y-6=60
21	1)2113 2)0.365 3)2870 4)0.00678	22	a)-14^0 C b) 4pm c)-4^0C	23	1)3&5,4&6 2)3&6,4&5 3)1&3,2&4 5&7,6&8	25	13 years	25	Mean =39 4 players
26	23	27	a=60^0 b=120^0 c=60^0 d=120^0	28	-	29	1)30 2)10 3)25 4) $\frac{7}{20}$	30	a)2.48km 2)14.88km

31	Boys=510 Girls =560	32	1. ADC =48^0 $\angle ABC = 48^0$ 2. $x = 132^0$ y = 48^0 $3.\ 45^0$& 45^0	33	1)26 2)35 3) ₹123 loss	34	1)Manu 29 points Syam 22 points 2) 15 points 3) 5 points