

OSDAV Public School, Kaithal

First Term Exams (2024-25) Class: VII

Subject: Mathematics

SET- A

Time: 2 hrs.20 mins M.M.: 60

General Instructions:- All questions are compulsory.

Q.N.		tions. Thi questi	ons are compuisory Questions	•	Marks		
			Section A				
1.	Absolute valu	e of $\frac{-15}{29}$ is:			1		
	$(a)^{\frac{-15}{29}}$	$(b)\frac{29}{-15}$	$(c)\frac{15}{29}$				
2.	The observation			nes in a data is called:	1		
	a)mean	b)median	c)mode	d)range			
3.		ed as a rational nu			1		
	$a)\frac{245}{100}$	b) $\frac{49}{200}$	$c)\frac{245}{10}$	$d)\frac{49}{20}$			
4.		ent of multiplication	on is:		1		
	a)0	b)1	c)2	d)3			
5.	1.5x0.4 =				1		
	a)60	b)0.60	c)6.0	d)0.06			
6.	Value of $(\frac{-5}{9})$	$^{8} \div (\frac{-5}{9})^{4}$ is-			1		
	$a)(\frac{-5}{9})^2$,	$c)(\frac{-5}{9})^{12}$	$d)(\frac{-5}{9})^4$			
7.		inverse of $\frac{-5}{11}$ is:			1		
		b) $\frac{-11}{5}$	$c)\frac{11}{5}$	$d)\frac{5}{11}$			
8.	Standard form	of $\frac{21}{}$ is:			1		
		37	`21	12-7			
	$a)\frac{7}{13}$		$c)\frac{21}{39}$	$d)\frac{-7}{13}$			
9.	3.5 x 10 ⁻² is e	=			1		
		b)0.035	c)0.0035	d)0.00035			
10.	Value of 30%				1		
	a)45	b)35	c)25	d)15			
11.		s% are always cal			1		
10	a)cost price	, 61	, -		1		
12.				s are 18, 21, 21, 32, 36, 50,	1		
		93. Then the median is 32. Reason: When a given data is arranged in ascending or descending order, then the					
	mide						
		on and reason are	correct and Reason	is the correct explanation for			
	assertion.	ion and massen and	acompat and Dassan	is not the comment			
		for assertion.	correct and Reason	is not the correct			
	-	true but reason is	false.				
	d) Both assert	ion and reason are	false.				
			Section-B				
13.	Find the value				2		
	$(\frac{5}{7})^3 \times (\frac{5}{7})^5 =$						
14.	Find two ratio	nal number betwe	en $\frac{-5}{6}$ and $\frac{3}{4}$.		2		

$\frac{7}{49} = \frac{x}{84}$							2
49 RA							
In what time wil	l a sum of mo	ney of Rs 100	00 amour	ts to I	Rs 1200 at 59	% per annum?	2
The mean of 15 observations was 50.It was detected that 95 was misread as 59.Find the correct mean.						2	
	should (3) - 2	be multiplied	so that t	he pro	duct may be	equal to (3)-4?	2
-					<u> </u>	1	2
,		Sec	tion-C				
					•	•	3
		ode of the foll	lowing da	ata.			3
Simplify: $[(\frac{4}{5})^2]^3 \times (\frac{4}{5})^{-3}$	$x 5^{-1} x (\frac{1}{6})^0$						3
Show that-							3
Using long divis	ion method,co	onvert the rati	onal nun	ıber 17	in decimal	form . Also , wtite	3
				•	D		
Arrange the following rational numbers in ascending order: $\frac{3}{2}, \frac{5}{10}, \frac{-7}{10}, \frac{3}{10}$					3		
4 -12 10 8		Sec	tion-D				
	_	⊦ z					4
3	U				_	% and on the others	4
						0.0) 0.11	
							4
•							
	-	s data.				0.5	
G1 ' 11'	C: 1				1 , 1	1 1 '	1 + 1 + 2
•					ed to buy sor	ne bakery items for	1+1+2
					ead Rolls	Box Of	
Item	1 atties	TVIU.	111113	Dic	ad Rolls		
Quantity	6	4	4		2	1	
required							
Each patties cost the box of candle i) Find the cost of ii) Find the cost of	Rs 22.50, ea es costs Rs 54 of all patties. of all muffins	ch muffin cos .25.	ts Rs 11.	75, ea			
	The mean of 15 correct mean. By what number Represent $\frac{3}{-7}$ on In a co- education school, find the transcription of the school. Find the mean, in 12,7,14,10,9,7,5, simplify: $ \begin{bmatrix} (\frac{4}{5})^2 \end{bmatrix}^3 \times (\frac{4}{5})^{-3} \\ $	The mean of 15 observations of correct mean. By what number should (3) $^{-2}$ Represent $\frac{3}{-7}$ on a number line. In a co- educational school, 40 school, find the total number of school. Find the mean, median and mean to 12,7,14,10,9,7,5,8,7 Simplify: $[(\frac{4}{5})^2]^3 \times (\frac{4}{5})^{-3} \times 5^{-1} \times (\frac{1}{6})^0$ Show that- $\frac{2}{3} \times (\frac{4}{5} - \frac{5}{2}) = (\frac{2}{3} \times \frac{4}{5}) - (\frac{2}{3} \times \frac{5}{2})$ Using long division method, on whether it is terminating or not arrange the following rational $\frac{3}{4}, \frac{5}{-12}, \frac{7}{16}, \frac{3}{8}$ Verify that: $x + (y+z) = (x+y) - x = \frac{3}{7}, y = \frac{5}{14}, z = \frac{-8}{21}$ Anuj sold two washing maching he loses 25%. How much does the loses 25%. How much does the loses 25%. How much does the loses 25% and the loses 25% are friends them. She made a list of all the litem. She made a litem she litem.	The mean of 15 observations was 50. It was correct mean. By what number should (3) -2 be multiplied Represent $\frac{3}{-7}$ on a number line. Section 1 a co- educational school, 40% of the total school, find the total number of students in school. Find the mean, median and mode of the following 12,7,14,10,9,7,5,8,7 Simplify:	The mean of 15 observations was 50.It was detected correct mean. By what number should (3) - 2 be multiplied so that the Represent $\frac{3}{-7}$ on a number line. Section-C In a co- educational school, 40% of the total students school, find the total number of students in the schools school. Find the mean, median and mode of the following detalor, 14, 10, 9, 7, 5, 8, 7 Simplify: $\left[\left(\frac{4}{5}\right)^2\right]^3 \times \left(\frac{4}{5}\right)^{-3} \times 5^{-1} \times \left(\frac{1}{6}\right)^0$ Show that- $\frac{2}{3} \times \left(\frac{4}{5} - \frac{5}{2}\right) = \left(\frac{2}{3} \times \frac{4}{5}\right) \cdot \left(\frac{2}{3} \times \frac{5}{2}\right)$ Using long division method, convert the rational number whether it is terminating or non terminating. Arrange the following rational numbers in ascending $\frac{3}{4}$, $\frac{5}{-12}$, $\frac{7}{16}$, $\frac{3}{8}$ Section-D Verify that: $x + (y+z) = (x+y) + z$ $x = \frac{3}{7}$, $y = \frac{5}{14}$, $z = \frac{-8}{21}$ Anuj sold two washing machines at Rs 6000 each. On the loses 25%. How much does he gain or loss in whom the loses 25%. How much does he gain or loss in whom the loses 25%. How much does he gain or loss in whom the loses 25%. How much does he gain or loss in whom the loses 25% of the lose of class VII A in final to the lose of the lose of all the items she needed to lose of the lose of candles costs Rs 22.50, each muffin costs Rs 11. Item Patties Muffins Her father gave her a note of Rs 500 and she went to Each patties cost Rs 22.50, each muffin costs Rs 11. Item Patties Muffins Her father gave her a note of Rs 500 and she went to Each patties cost Rs 22.50, each muffin costs Rs 11. Item Patties Muffins Find the cost of all patties. Find the cost of all patties. Find the cost of all muffins.	The mean of 15 observations was 50. It was detected that 9 correct mean. By what number should (3) $^{-2}$ be multiplied so that the professor Represent $\frac{3}{-7}$ on a number line. Section-C In a co- educational school, 40% of the total students are be school, find the total number of students in the school. Als school. Find the mean, median and mode of the following data. 12,7,14,10,9,7,5,8,7 Simplify:	The mean of 15 observations was 50.It was detected that 95 was misrecorrect mean. By what number should (3) $^{-2}$ be multiplied so that the product may be Represent $\frac{3}{-7}$ on a number line. Section-C In a co- educational school, 40% of the total students are boys. If there school, find the total number of students in the school. Also find the nuschool. Find the mean, median and mode of the following data. 12,7,14,10,9,7,5,8,7 Simplify:	The mean of 15 observations was 50.It was detected that 95 was misread as 59.Find the correct mean. By what number should (3) $^{-2}$ be multiplied so that the product may be equal to (3) 4 ? Represent $\frac{3}{-7}$ on a number line. Section-C In a co- educational school, 40% of the total students are boys. If there are 320 boys in the school, find the total number of students in the school. Also find the number of girls in the school. Find the mean, median and mode of the following data. 12,7,14,10,9,7,5,8,7 Simplify: $(\frac{1}{5})^2)^3 \times (\frac{1}{5})^{-3} \times 5^{-1} \times (\frac{1}{6})^0$ Show that- $\frac{2}{3} \times (\frac{1}{5}, \frac{5}{2}) = (\frac{2}{3} \times \frac{4}{5}) - (\frac{2}{3} \times \frac{5}{2})$ Using long division method, convert the rational number $\frac{125}{8}$ in decimal form . Also , wtite whether it is terminating or non terminating. Arrange the following rational numbers in ascending order: $\frac{3}{3} \cdot \frac{-7}{2} \cdot \frac{3}{4^2 - 12^2 \cdot 16 \cdot 8}$ Section-D Verify that: $x + (y + z) = (x + y) + z$ $x = \frac{3}{7}, y = \frac{5}{14}, z = \frac{-8}{21}$ Anuj sold two washing machines at Rs 6000 each. On one he gains 25% and on the others he loses 25%. How much does he gain or loss in whole transaction. Marks obtained by two girls of class VII A in final term exam (out of 100) as follows: Subjects English Hindi Maths Science S. Science Monika 75 80 95 70 85 Bhavna 72 85 95 85 85 Plot a double bar graph for this data. Section-E Shreya is calling some friends over to her place. She wanted to buy some bakery items for them. She made a list of all the items she needed to buy. Item Patties Muffins Bread Rolls Box Of Candles Quantity 6 4 2 1 required Her father gave her a note of Rs 500 and she went to the bakery to buy these items. Each patties cost Rs 22.50, each muffin costs Rs 11.75, each bread roll costs Rs 17.25 and the box of candles costs Rs 54.25. i) Find the cost of all patties. ii) Find the cost of all muffins.



OSDAV Public School, Kaithal First Term Exams (2024-25)

Class: VII

Subject: Mathematics

SET- B

Time: 2 Hrs.20 mins

M.M.: 60

	General Instru	ctions:-All question	ons are compulsory	'.		
Q.N.			Questions		Marks	
1	X/ 1 C400/	C200 :	Section=A		1	
1.	Value of 40%		\20	1)00	1	
	a) 40	b)30	c)20	d)80	1	
2.		n we get profit whe		0.4	1	
		b) S.P.>C.P.	c) C.P. =S.P.	d)none of these		
3.	Standard form	of $\frac{45}{60}$ is:			1	
			$c)\frac{45}{60}$	$d)^{\frac{-3}{4}}$		
<u> </u>	a) $\frac{9}{12}$ 4.5 x 10 ⁻³ is eq	4	60	4	1	
4.			-)0.0045	1)0,00045	1	
~		b)0.045	c)0.0045	d)0.00045	1	
5.	Additive inver	se of $\frac{-13}{17}$ is:			1	
	a) $\frac{-15}{17}$	b) $\frac{-17}{}$	$c)^{\frac{17}{15}}$	$d)_{17}^{15}$		
6.	$2.5 \div 0.5 = \dots$	15	15	[/] 17	1	
0.			2)0.05	4)0 005	1	
7	a) 5 Value of $(\frac{-5}{9})$	0)0.3	c)0.05	d)0.005	1	
7.					1	
	a) $(\frac{-5}{-})^2$	$b)(\frac{-5}{9})^{32}$	$c)(\frac{-5}{-1})^{12}$	$d)(\frac{-5}{9})^4$		
3.		nt of addition is:		, , ,	1	
0.	_		c)2	d)3	1	
9.	0.345 evpresse	b)1 ed as a rational num	ober is	u)3	1	
<i>)</i> .				1, 69	1	
	$a)\frac{345}{100}$		c) $\frac{345}{10}$			
10.	The difference		nd lowest observation	on in a data is called:	1	
	a)mean	b)median	c)mode	d)range		
11.	Absolute value	e of $\frac{-17}{10}$ is:			1	
		17	(2)17	(4) ⁻¹⁹		
	$(a)^{\frac{-17}{19}}$		$(c)\frac{17}{19}$	$(d)\frac{-19}{17}$		
12.		•	n students in a class	are 18, 21, 21, 32, 36, 50, 93. Then the	1	
		edian is32.	onaad in assandina	on descending and on them the middle		
	Reason: When a given data is arranged in ascending or descending order, then the middle most observation is called the median of data.					
				s the correct explanation for assertion.		
				s not the correct explanation for		
	assertion.			•		
		true but reason is f				
	d) Both asserti	on and reason are f				
1.2	D 1 . 1	1 11/4>-21	Section-B	1 1 1 (4)30	2	
13.				e product may be equal to (4) ⁻³ ?	2	
14. 15.	-		orks food amount	s to Rs 1200 at 5% per annum?	2 2	
	-3	on a number line.				
16.	The mean of 1	5 observations was	50.It was detected t	that 95 was misread as 59. Find the	2	

	correct mean.									
17.	Find the value o	of x:								2
	$\left(\frac{3}{5}\right)^7 \div \left(\frac{3}{5}\right)^5 = \left(\frac{3}{5}\right)^$	$(\frac{3}{5})^{4x}$								
18.	Find two rational number between $\frac{-3}{5}$ and $\frac{7}{10}$.						2			
			ween -	$\frac{-}{5}$ and $\frac{-}{10}$	<u>.</u> .					
19.	Find the value o	of x, if—								2
	$\frac{10}{50} = \frac{x}{45}$									
	30 13			Se	ection-C					
20.	Using long divis	sion method.c	conver	t the ratio	onal num	ber 1	65 in decima	l form . Also , wti	ite	3
	whether it is term						8			
21.	Show that-	illillating of il	011 (011	maing	•					3
21.		5 (4 2)								
	$\frac{4}{7} \times (\frac{5}{7} - \frac{2}{3}) = (\frac{4}{7} \times \frac{1}{3})$	$(\frac{1}{7})^{\frac{1}{7}}(\frac{1}{7},\frac{1}{3})$								
22.	Arrange the follo	owing rationa	al num	bers in a	scending	gorde	r.			3
	$\frac{3}{7}, \frac{5}{-2}, \frac{-5}{14}, \frac{13}{21}$									
23.	In a co- education	onal school, 4	10% of	the tota	l students	s are b	oys .If there	are 320 boys in t	he	3
		total number	of stu	dents in	the school	ol. Als	o find the nu	ımber of girls in t	he	
	school.									
24.	Find the mean, 1		node o	f the foll	owing da	ıta.				3
2.5	10,14,26,12,12,	11,12								
25.	Simplify:	1 . 0								3
	$\left[\left(\frac{3}{5} \right)^2 \right]^3 \times \left(\frac{3}{5} \right)^{-3}$	$5 \times 5^{-1} \times (\frac{1}{8})^{0}$								
					ection-D					
26.	A man sold two	A man sold two bed sheets at Rs600 each. On one he gains 20% and on the other he loses							es	4
	25%. How much	h does he gair	n or lo	se in the	whole tr	ansac	tion?			
27.	Verify that: x +(y+z = (x+y)	+ z							4
	$x = \frac{3}{4}, y = \frac{5}{8}, z = \frac{-9}{16}$									
20				1 '	• ,		(; 00)	C.1 1:00 4 :	, ·	4
28.	Following data gives the maximum and minimum temperature (in ⁰ C) of the different cities on a particular day. Plot a double bar graph from this data:							ties	4	
		Delhi				us dat	a: Chandigarl	Gurugram		
	Max. Temp.	25		30	34	ia	25	n Gurugram 30		
	Min. Temp.	20		22	25		20	25		
	Willi. Temp.	20			ection-E		20	23		
29.	Shreva is calling	r some friend	s over			want	ed to buy so	me bakery items f	or	1+1+2
2).	them. She made			-			ca to bay so	ine bakery items i	.01	1 1 1 2
	Item	Patties			ffins		ead Rolls	Box Of		
				11202				Candles		
	Quantity	6			1		2	1		
	required									
	Her father gave her a note of Rs 500 and she went to the bakery to buy these items.									
	-			ıffin cost	ts Rs 11.′	75, ea	ch bread roll	costs Rs 17.25 ar	nd	
	the box of candl		4.25.							
	i) Find the cost of	-								
	ii) Find the cost			1 111 -	1 1	0				
	iii) How much d	iid Shreya pa	y total	bill at th	ne bakery	r?				

OSDAV Public School, Kaithal

Half yearly Exams (2024-25) Class: VII

Subject: Mathematics

SET-A

Time: 2 Hrs.20 mins

M.M.: 60

General Instructions:-

I. All questions are compulsory.

Q .N	Value points /Key points	Marks allotted to each key	Marks
	Section=A		
1.	$(c)\frac{15}{29}$	1	1
2.	c)mode	1	1
3.	$b)\frac{49}{200}$	1	1
4.	b)1	1	1
5.	b)0.60	1	1
6.	$d)(\frac{-5}{9})^4$	1	1
7.	$b)^{\frac{-11}{5}}$	1	1
8.	$a)\frac{7}{13}$	1	1
9.	b)0.035	1	1
10	a)45	1	1
11	a)cost price	1	1
12	a) Both assertion and reason are correct and Reason is the correct explanation for assertion.	1	1
	Section-B		
13	Find the value of x:		2
•	$\left(\frac{5}{7}\right)^3 \times \left(\frac{5}{7}\right)^5 = \left(\frac{5}{7}\right)^{4x}$		
	$(\frac{5}{7})^8 = (\frac{5}{7})^{4x}$	1	
	When bases are same equate the power	1	
	4x = 8		
	$X = \frac{8}{4}$	1	
	x=2		
14	Find two rational number between $\frac{-5}{6}$ and $\frac{3}{4}$.	1+1	2
•	First number: Second Number:		
	$ \frac{1}{2} \left(\frac{-5}{6} + \frac{3}{4} \right) \qquad \qquad \frac{1}{2} \left(\frac{-5}{6} + \frac{-1}{24} \right) $ $ = \frac{1}{2} \left(\frac{-10+9}{6} \right) \qquad \qquad = \frac{1}{2} \left(\frac{-20-1}{6} \right) $		
	$ \frac{1}{2} \left(\frac{-5}{6} + \frac{3}{4} \right) \qquad \qquad \frac{1}{2} \left(\frac{-5}{6} + \frac{-1}{24} \right) \\ = \frac{1}{2} \left(\frac{-10+9}{12} \right) \qquad \qquad = \frac{1}{2} \left(\frac{-20-1}{24} \right) \\ = \frac{1}{2} x \frac{-1}{12} \qquad \qquad = \frac{1}{2} x \frac{-21}{24} \\ = \frac{-1}{24} \qquad \qquad = \frac{-21}{48} $		
1.5	24 48		
15	Find the value of x, if –		2
•	$\frac{7}{49} = \frac{x}{84}$		
	By cross multiplication		

	$49x \mathcal{X}=84 \times 7$	1+1	
	$\mathcal{X} = \frac{84 \times 7}{49}$		
	$\lambda = \frac{\lambda}{49}$		
	X = 12		
16	Principal= Rs1000 Amount= Rs1200 Rate of Interest=5%p.a.	1/2	2
	Simple Interest=1200-1000	1/2	
	=200		
	$Time = \frac{S.I.\times 100}{P\times P.I}$		
	$11me = \frac{1}{P \times R.I.}$	1	
	Time = 200 × 100	1	
	100070		
	Time =4 years		
17	Mean of 15 observations =50	1/2	2
	Sum of 15 observations =50 x 15		
	=750		
	95 was misread as 59	1	
	Correct sum of observation= 750+95-59		
	=786		
		1/2	
	$Correct mean = \frac{786}{15}$	/2	
	=52.4		
18	Let the required number = χ	1/2	2
	Let the required number = \mathcal{X} (3) ⁻² x $\mathcal{X} = (3)^{-4}$	1/2	-
•	$\begin{pmatrix} (3) & \lambda \lambda - (3) \\ 1 & \dots & 1 \end{pmatrix}$	/2	
	$\frac{1}{9} \times \mathcal{X} = \frac{1}{81}$		
	$\gamma - \frac{1}{2} \div \frac{1}{2}$		
	$\begin{bmatrix} x & -1 & 0 \\ 81 & 9 \end{bmatrix}$	1	
	$ \begin{array}{c} \mathcal{X} = \frac{1}{81} \div \frac{1}{9} \\ \mathcal{X} = \frac{1}{81} \times \frac{9}{1} \end{array} $		
	$\chi = \frac{1}{0}$		
	$\lambda = \frac{\lambda}{9}$		
19		1/2	2
	Z v-1 -3		
	$\frac{3}{-7} \times \frac{1}{x-1} = \frac{3}{7}$		
	Α	1 1/2	
	7 - 5 - 5 - 4 - 3 - 2 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7	1 /2	
	Point A Represent -3		
	7		
	Section-C		
20	Let the total number of students= X	1/2	3
	% of boys=40		
	Number of boys=320		
	$40\% \text{ of } \mathcal{X} = 320$		
		2	
	$\frac{40}{100} \times \mathcal{X} = 320$		
	$\mathcal{X} = 320 \times \frac{100}{40}$		
	$\mathcal{X} = 800$		
	Total number of students=800		
	Number of girls=800-320=480	1/2	
21	Find the mean, median and mode of the following data.		3
	12+7+14+10+9+7+5+8+7=79		
	total number of observations		
	Mean= $\frac{79}{9}$	1	
	=8.7	1	
i	1 —X /	1	1
	Ascending order- 5,7,7,7,8,9,10,12,14		

	Median =8 Mode =7	1 1	
	Simplify: $ \left[\left(\frac{4}{5} \right)^{2} \right]^{3} \times \left(\frac{4}{5} \right)^{-3} \times 5^{-1} \times \left(\frac{1}{6} \right)^{0} $ $ = \left(\frac{4}{5} \right)^{6} \times \left(\frac{4}{5} \right)^{-3} \times \frac{1}{5} \times 1 $ $ = \left(\frac{4}{5} \right)^{6+(-3)} \times \frac{1}{5} \times 1 $ $ = \left(\frac{4}{5} \right)^{3} \times \frac{1}{5} \times 1 $ $ = \frac{64}{625} $	2	3
23	Show that- $\frac{2}{3} \times \left(\frac{4}{5} - \frac{5}{2}\right) = \left(\frac{2}{3} \times \frac{4}{5}\right) - \left(\frac{2}{3} \times \frac{5}{2}\right)$ L.H.S. $= \frac{2}{3} \times \left(\frac{8 - 25}{10}\right)$ $= \frac{2}{3} \times \frac{-17}{10}$ $= \frac{-17}{15}$ $= \frac{-17}{15}$ L.H.S.=R.H.S. Hence Showed	1 ½ +1 ½	3
24	8 1125 000 (15.625 - 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2+1	3
25	$\frac{3}{4}$, $\frac{5}{12}$, $\frac{7}{16}$, $\frac{3}{8}$, $\frac{3}{4}$, $\frac{5}{12}$, $\frac{7}{16}$, $\frac{3}{8}$, $\frac{3}{12}$, $\frac{16}{16}$, $\frac{3}{8}$, $\frac{3}{12}$, $\frac{16}{18}$, $\frac{3}{48}$, $\frac{7}{48}$, $\frac{18}{48}$, $\frac{18}{48}$, $\frac{18}{48}$, $\frac{18}{48}$, $\frac{1}{48}$, 1	1 1/2	3

			Section-D)				
26	Verify that: x	+(y+z)=(x+y)					2+2	4
•	$x = \frac{3}{7}, y = \frac{5}{14}, z$	$z = \frac{-8}{1}$						
		$\frac{21}{2}$	(+2)	1 (x+1	2+2			
		1. 1.	1.07	10000	2,3			
	- 3	+(5-	8	1 (3+	54)+	21		
	- 3	+(5×	3 82	(3×2	-5×1-5	3		
		CIM	21)	7	57 8	21		
	7	+ (15	12	67	$\frac{3}{4}$. (
	3	1-1		15	2 8 × 5			
		5×6 1×	•	3	3-16	7:-		
		7 42	Wat zumi		12			
	<u> </u>	8-1		17/ -1-		-		
		17		7				
		42		name.				
		_	17 =	- 1.7	-1 =	1		
		Her	000	reritie	261			
		- 1000		0				
27								4
•	S.P. of one wa Profit %=25%	shing machine	= Rs 6000				1 ½	
							1 72	
	$C.P.=6000x\frac{10}{100}$	00+25						
	C.P.= $6000x\frac{100}{12}$	<u>0</u> 5						
	C.P.=4800							
		vashing machin	e= Rs 6000				1	
	Loss% = 25%	100						
	C.P.= $6000x\frac{1}{100}$	0-25						
	C.P.= $6000x\frac{100}{75}$	<u>0</u>						
	C.P.=8000							
		ce=4800+8000=					1/2	
		orice=6000+600 12000= Rs800	00=12000				1/2	
28		ed by two girls	of class VII A	in final term e	vam (out of 10	(I) ac	1/2	4
	follows:	a by two giris	or class virit	in imai term e	Adiii (Odt Oi 10	0) us	$+2^{1/2}$	7
	Subject	English	Hindi	Maths	Science	S.Scien	-	
	S					ce		
	Monika	75	80	95	70	85	_	
	Bhavna	72	85 S. 4: E	95	85	85		
29	If cost of 1 pa	ttv-Da 22 50	Section-E	,			1	1+1+2
29		tty=Rs 22.50 6 patties=22.50	x 6				1	1+1+2
		=Rs135						
	If cost of 1 mu	uffin=Rs 11.75					1	
	Then cost of 4	1 muffins=11.7						
	TO	=Rs 4						
		ead roll=Rs17.2					1	
	I nen cost of 2	2 bread roll=17.	.25x2 .34.50				1	
		-103	J-7.JU]	

Total bill=135+47+34.50+54.25 =Rs270.75	1	



OSDAV Public School, Kaithal

Half yearly Exams (2024-25) Class: VII

Subject: Mathematics

SET-B

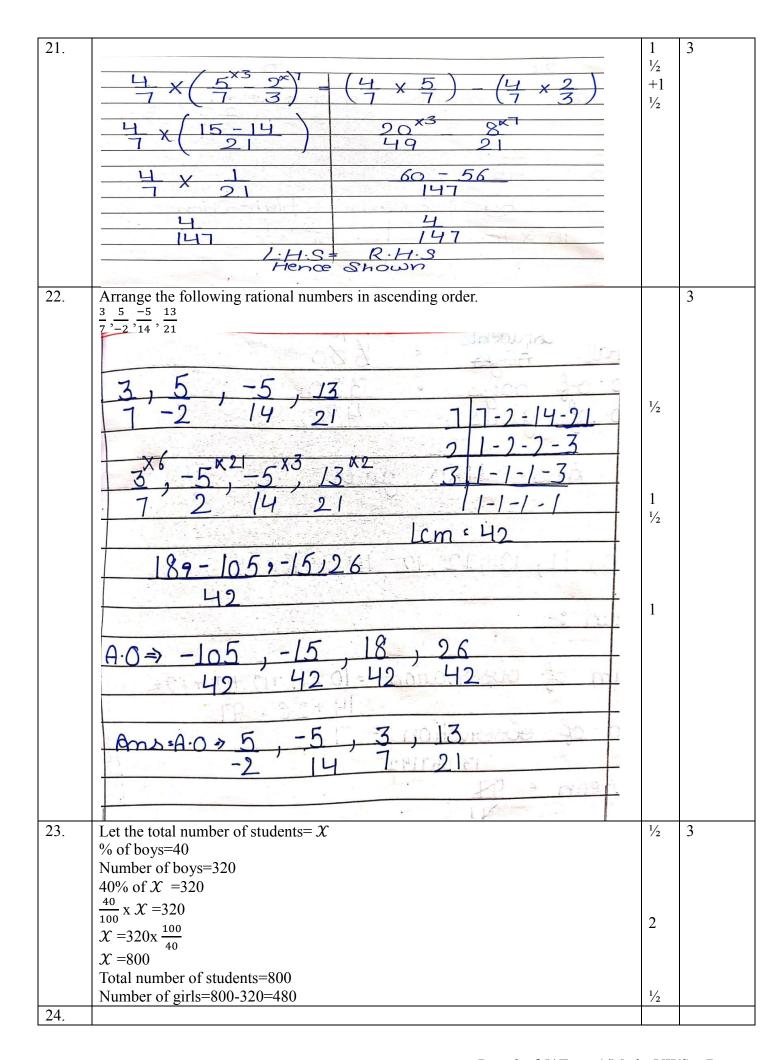
Time: 2 Hrs.20 mins M.M.: 60

General Instructions:-

I. All questions are compulsory.

Q.N.	Questions		Marks
	Section=A		
1.	d)80	1	1
2.	b) S.P.>C.P.	1	1
3.	$b)\frac{3}{4}$	1	1
4.	c)0.0045	1	1
5.	$d)^{\frac{15}{17}}$	1	1
6.	a)5	1	1
7.	$c)(\frac{-5}{9})^{12}$	1	1
8.	a)0	1	1
9.	$b)\frac{69}{200}$	1	1
10.	d)range	1	1
11.	$(c)^{\frac{17}{19}}$	1	1
12.	a) Both assertion and reason are correct and Reason is the correct explanation	1	1
	for assertion.		
	Section-B		
13.	Let the required number = \mathcal{X} $(4)^{-2}x \ \mathcal{X} = (4)^{-3}$ $\frac{1}{16} x \ \mathcal{X} = \frac{1}{64}$	1/ ₂ 1/ ₂	2
	$ \mathcal{X} = \frac{1}{64} \div \frac{1}{16} \\ \mathcal{X} = \frac{1}{64} \times \frac{16}{1} \\ \mathcal{X} = \frac{1}{4} $	1	
14.	Principal= Rs1000 Amount= Rs1200 Rate of Interest=5%p.a. Simple Interest=1200-1000 =200 Time=S.I.×100	1/ ₂ 1/ ₂	2
	$Time = \frac{P \times R.I.}{200 \times 100}$ $Time = \frac{1000 \times 5}{1000 \times 5}$ $Time = 4 \text{ years}$	1	
15.	Represent $\frac{4}{-3}$ on a number line.		2
	$\frac{4\times -1}{-3\times -1} = -\frac{4}{3}$		
	A - 2 - 1 3 0 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
	Point A represent -43		

	Taran arang ar	1	T
16.	Mean of 15 observations =50	1/2	2
	Sum of 15 observations = 50×15		
	=750		
	95 was misread as 59		
	Correct sum of observation= 750+95-59	1	
	=786		
	$Correct mean = \frac{786}{15}$		
	15 =52.4	1/2	
17.	Find the value of x:		2
1 /.	Find the value of x .		2
	$\left(\frac{3}{5}\right)^7 \div \left(\frac{3}{5}\right)^5 = \left(\frac{3}{5}\right)^{4x}$		
	$\left(\frac{3}{5}\right)^2 = \left(\frac{3}{5}\right)^{4x}$	1	
		1	
	When bases are same equate the power		
	4x = 2		
	$X = \frac{2}{4}$ $X = \frac{1}{2}$	1	
	X		
18.		1+	2
	First number: Second Number:	1	
	$ \frac{1}{2} \left(\frac{-3}{5} + \frac{7}{10} \right) \qquad \qquad \frac{1}{2} \left(\frac{7}{10} + \frac{1}{20} \right) \\ = \frac{1}{2} \left(\frac{-6+7}{10} \right) \qquad \qquad = \frac{1}{2} \left(\frac{1+14}{20} \right) \\ = \frac{1}{2} x \frac{1}{10} \qquad \qquad = \frac{1}{2} x \frac{15}{20} \\ = \frac{1}{20} \qquad \qquad = \frac{3}{8} $		
	2 \ 5 \ 10 \ \ 1 \6+7 \ \ 1 \ _1+14 \ \		
	$=\frac{1}{2}\left(\frac{1}{10}\right)$ $=\frac{1}{2}\left(\frac{1}{20}\right)$		
	$\begin{vmatrix} \frac{1}{2} x \frac{10}{10} \\ = \frac{1}{2} x \frac{15}{20} \\ = \frac{3}{2} \end{vmatrix}$		
	$\begin{bmatrix} 2 & 10 & & 2 & 20 \\ 1 & & & 3 & & \end{bmatrix}$		
	$=\frac{-}{20}$ $=\frac{-}{8}$		
19.	Find the value of x, if –		2
	$\frac{10}{50} = \frac{x}{45}$		
	50 45		
	By cross multiplication	1	
	$50 \times \mathcal{X} = 45 \times 10$		
	$\mathcal{X} = \frac{45 \times 10}{50}$	1	
	$\chi = 9$	-	
	Section-C		
20.		2+	3
20.	20.625	1	3
	165 8/165.000	1	
	8 16.1.1		
	000		
	5		
	50		
	48		
	Ans = 20.625 20		
	16		
	: Terminating 40		
	decimal representation 40		
	decimal representation 40		
	X		



			•
	10, 11, 12, 12, 14, 26		
	Mean :-		
	Sum of observation = 10+11+12+12+	1	
	14 + 2.6 = 97		
	No of observation 5 7		
	Mean = 97		
		1	
	Mean : 13.857142 -Ans		
	Median :- 12		
	10, 11, 12, (12) 12, 14, 26		
	Median = 12 Ans	1	
	Mode 8-		
	12 occurs max. 3 times		
	Mode = 12		
25.	Simplify: $ \left[\left(\frac{3}{5} \right)^2 \right]^3 \times \left(\frac{3}{5} \right)^{-3} \times 5^{-1} \times \left(\frac{1}{8} \right)^0 $		3
	$= (\frac{3}{5})^6 x (\frac{3}{5})^{-3} x \frac{1}{5} \times 1$		
	2 ((2) 1	2	
	$= \left(\frac{3}{5}\right)^{6+(-3)} \times \frac{1}{5} \times 1$ $= \left(\frac{3}{5}\right)^3 \times \frac{1}{5} \times 1$ $= \frac{27}{635}$		
	$=\frac{27}{625}$	1	
	Section-D		
26.	S.P. of one bed sheet= Rs 600		4
	Profit %=20%	1	
	$C.P = 600x \frac{100}{100 + 20}$	1/2	
	C.P.= $600x\frac{100}{120}$ C.P.= 500		
	S.P. of other bed sheet= Rs 600		
	$Loss\% = 25\%$ $C.P.=600x \frac{100}{100-25}$	1	
	$\begin{array}{c} \text{C.I.} = 600X_{100-25} \\ \text{C.P.} = 600X_{75}^{100} \end{array}$		
	C.P.=800		
	Total cost price=500+800=1300 Total selling price=600+600=1200	$\frac{1}{2}$ $\frac{1}{2}$	
	Loss = 1300-1200= Rs100	1/2	

27.	3 (5 1-9) (3 +5) + 9 3 (6 16) (9 8) + 16 3 + (10-9) - (6+5) + -9 - 4 (16) (8) + 16 - 12+1 - 22-9 - 16 - 13 - 16 - 18 - 18 - 19						2+ 2	4	
28.	Following data gives the maximum and minimum temperature (in 0 C) of the different cities on a particular day. Plot a double bar graph from this data:						1/ ₂ +1	4	
	City	Delhi	Mumbai	Patna	Chandigarh	Gurugran			
	Max. Temp.	25	30	34	25	30	1/2		
	Min. Temp.	20	22	25	20	25			
	Section-E								
29.	If cost of 1 patty=Rs 22.50 Then cost of 6 patties=22.50x6 =Rs135 If cost of 1 muffin=Rs 11.75 Then cost of 4 muffins=11.75x4 =Rs 47 If cost of 1bread roll=Rs17.25						1	1+1+2	
							1		
							1		
	Then cost of 2 bread roll=17.25x2								
	=Rs34.50 Total bill=135+47+34.50+54.25						1	1	
	= Rs270.75						1		
	=KS2/	0.75							