OSDAV Public School, Kaithal
July Test (2024)
Class: VII
Subject: Mathematics

SET-A

Time: 1 hr 20 min. M.M.: 30

General Instructions:-

I. All questions are compulsory.

Q.No.	Questions	Marks
	Section-A	
1.	Multiplicative inverse of $\frac{-11}{17}$ is- a) $\frac{11}{-17}$ b) $\frac{-17}{11}$ c) $\frac{11}{17}$ d) $\frac{17}{11}$	1
2.	Identity element of subtraction of rational number is- a)1 b)0 c) -1 d)does not exist	1
3.	Absolute value of $\frac{-7}{8}$ is – a)$\frac{7}{-8}$ b)$\frac{-8}{7}$ c) $\frac{8}{7}$ d) $\frac{7}{8}$	1
4.	$\frac{3}{5}$ x $\frac{-4}{11}$ = $\frac{-4}{11}$ x.....	1
5.	Assertion: Rational numbers are not commutative for subtraction. Reason: Rational numbers are commutative under addition and multiplication. (a)Both assertion and reason are correct and reason is the correct explanation of assertion. (b)Both assertion and reason are correct and reason is not the correct explanation of assertion. (c)Assertion is true but reason is false. (d)Assertion is false but reason is true.	1
	Section-B	2
6.	Represent $\frac{5}{7}$ on a number line.	2
7.	Find the value of x. $\frac{7}{9} = \frac{x}{-63}$	2
8.	Find two rational numbers between $\frac{4}{9}$ and $\frac{-2}{3}$	2
9.	By what number should we multiply $\frac{-2}{5}$,so that the product may be 12?	2
10.	Simplify: $\frac{7}{3}$ x ($\frac{9}{8} + \frac{3}{4}$)	2
	Section-C	
11.	Arrange the following rational numbers in ascending order. $\frac{3}{5}, \frac{-3}{4}, \frac{7}{10}, \frac{-5}{-8}$	3
12.	i)Compare the following: $\frac{11}{15}, \frac{-9}{10}$ ii) Write $\frac{35}{-40}$ in standard form.	3
13.	Simplify: $\frac{3}{4} + \frac{2}{-5} - \frac{9}{10} + \frac{7}{10}$	3
14.	Verify that x+(y +z) =(x+y) +z for the following values: x = $\frac{3}{5}$, y = $\frac{-5}{6}$, z = $\frac{7}{15}$	3
15.	Find the value of x – y and y – x for x=$\frac{11}{13}$ and y = $\frac{-9}{26}$ .Are they equal?	3

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SET-B

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General Instructions:-

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Q.No.	Questions	Marks
	Section-A	
1.	$\frac{3}{5}$ x ..... = $\frac{-3}{5}$	1
2.	Multiplicative inverse of $\frac{-7}{8}$ is – a)$\frac{7}{-8}$ b)$\frac{-8}{7}$ c) $\frac{8}{7}$ d) $\frac{7}{8}$	1
3.	Identity element of multiplication of rational number is- a)1 b)0 c) -1 d)does not exist	1
4.	Absolute value of $\frac{-4}{9}$ is- a) $\frac{4}{-9}$ b) $\frac{-9}{4}$ c) $\frac{4}{9}$ d) $\frac{9}{4}$	1
5.	Assertion: Rational numbers are not commutative for addition. Reason: Rational numbers are commutative under addition and multiplication. (a)Both assertion and reason are correct and reason is the correct explanation of assertion. (b)Both assertion and reason are correct and reason is not the correct explanation of assertion. (c)Assertion is true but reason is false. (d)Assertion is false but reason is true.	1
	Section-B	2
6.	Simplify: $\frac{1}{3}$ x ($\frac{5}{8}+\frac{1}{6}$)	2
7.	By what number should we added to $\frac{-3}{7}$,so that the sum may be equal $\frac{5}{14}$?	2
8.	Represent $\frac{4}{9}$ on a number line.	2
9.	Find the value of x. $\frac{5}{35}=\frac{x}{-63}$	2
10.	Find two rational numbers between $\frac{3}{5}$ and $\frac{-3}{4}$	2
	Section-C	
11.	Verify that x+(y +z) =(x+y) +z for the following values: x = $\frac{2}{9}$, y =$\frac{-1}{6}$, z = $\frac{11}{12}$	3
12.	Simplify: $\frac{3}{7}+\frac{2}{-5}-\frac{5}{14}+\frac{7}{10}$	3
13.	i)Compare the following: $\frac{12}{17}$, $\frac{-3}{7}$ ii) Write $\frac{30}{-45}$ in standard form.	3
14.	Arrange the following rational numbers in ascending order. $\frac{5}{6}$,$\frac{-7}{10}$,$\frac{4}{5}$,$\frac{-7}{-12}$	3
15.	Find the value of x – y and y – x for x=$\frac{7}{9}$ and y = $\frac{-9}{12}$ .Are they equal?	3

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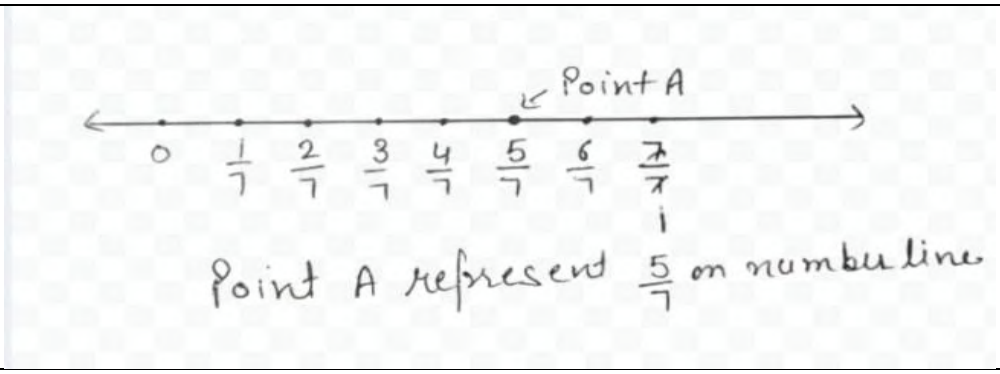
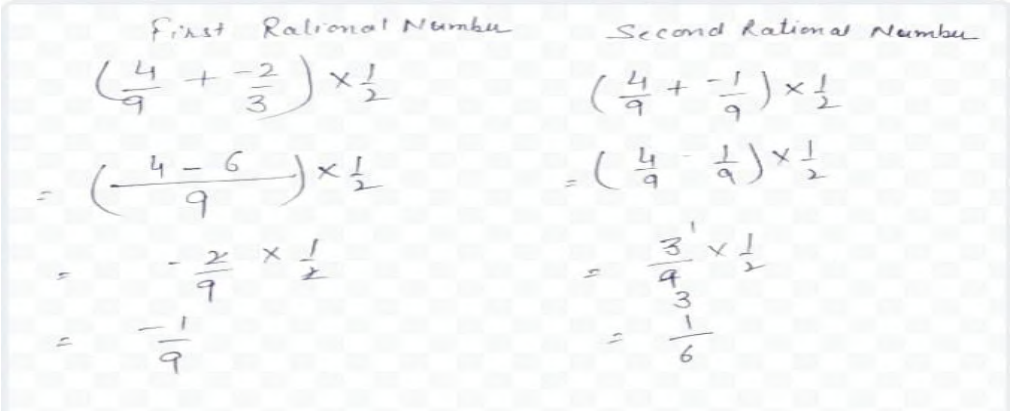
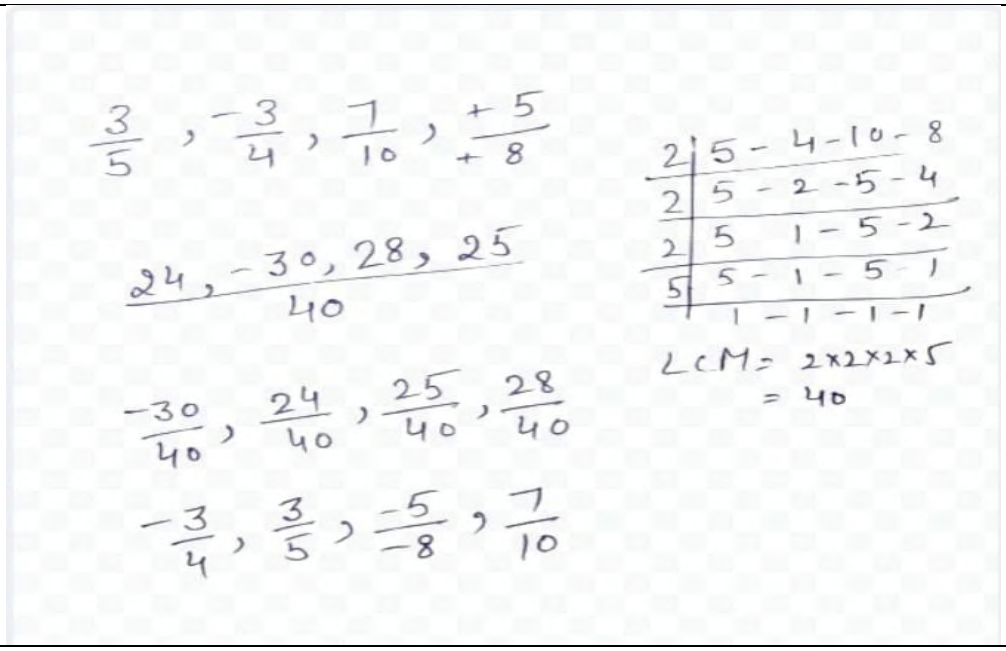
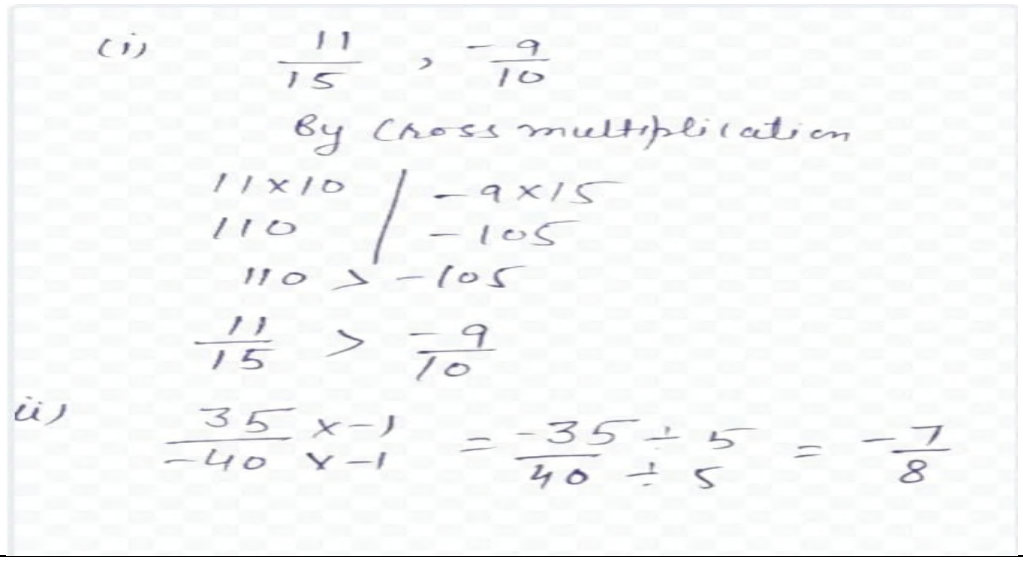
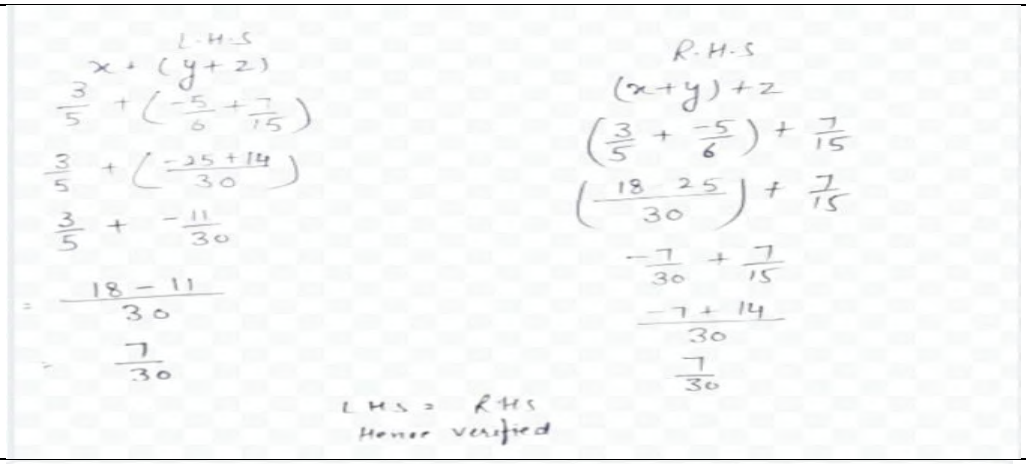
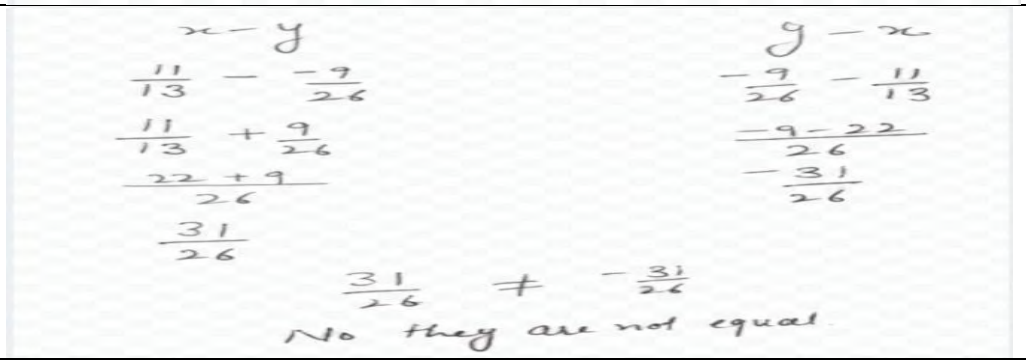
I. All questions are compulsory.

Q.No.	Value Points/Key Points	Marks allotted to each value point	Marks
	Section-A		
1.	b) $\frac{-17}{11}$	1	1
2.	d)does not exist	1	1
3.	d) $\frac{7}{8}$	1	1
4.	$\frac{3}{5}$	1	1
5.	(b)Both assertion and reason are correct and reason is not the correct explanation of assertion.	1	1
	Section-B		
6.		2	2
7.	Find the value of x. $\frac{7}{9} = \frac{x}{-63}$ 9 x x = -63 x 7 $x = \frac{-63 \times 7}{9}$ x=- 49	½ 1 ½	2
8.		1+1	2
9.	Let the number should be multiply= x	½	2

	$\frac{-2}{5}$ x x = 12 $x = 12 \div \frac{-2}{5}$ $x = 12 \times \frac{-5}{2}$ x = -30	½ 1	
10.	Simplify: $\frac{7}{3}$ x $(\frac{9}{8} + \frac{3}{4})$ $\frac{7}{3}$ x $(\frac{9+6}{8})$ $\frac{7}{3}$ x $\frac{15}{8}$ $= \frac{35}{8}$	2	2
	Section-C		
11.		½ 1 ½ 1	3
12.		1 ½ 1 ½	3
13.	Simplify: $\frac{3}{4} + \frac{2}{-5} - \frac{9}{10} + \frac{7}{10}$ $\frac{15-8-18+14}{20}$ 3 $= \frac{29-26}{20}$	½ + ½ +2	3

	$= \frac{3}{20}$		
14.		1 ½ + 1 ½	
15.		1 ½ +1 ½	

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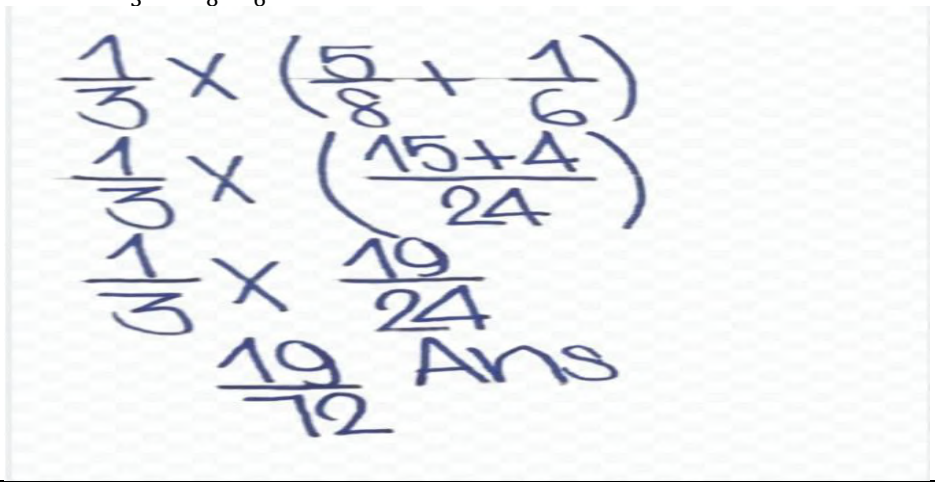
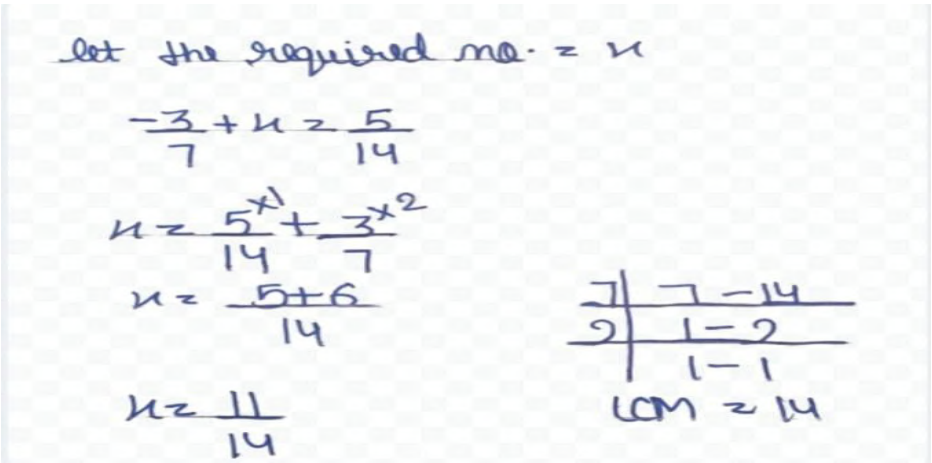
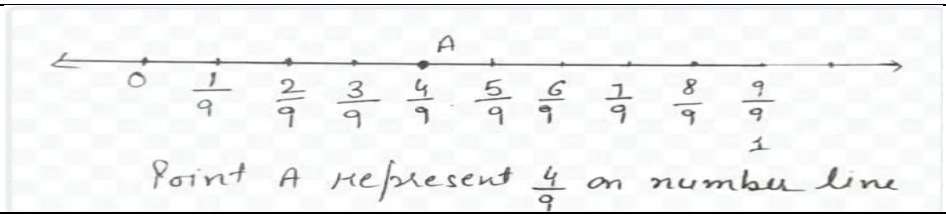
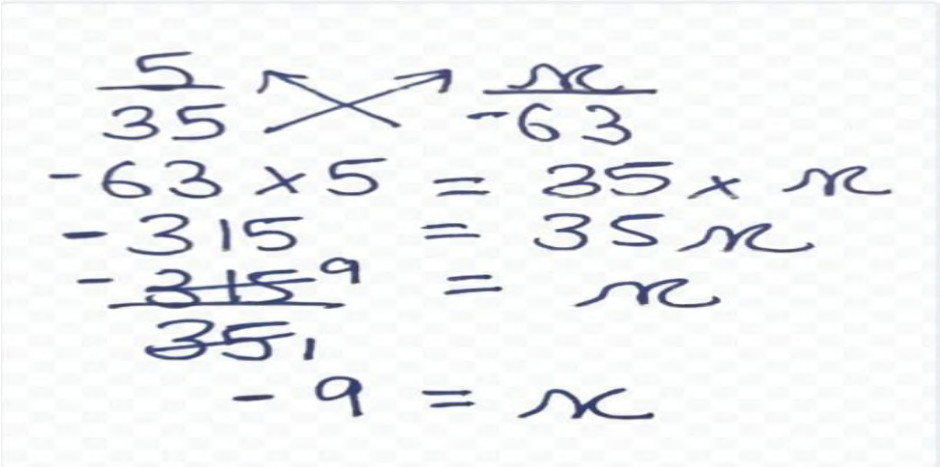
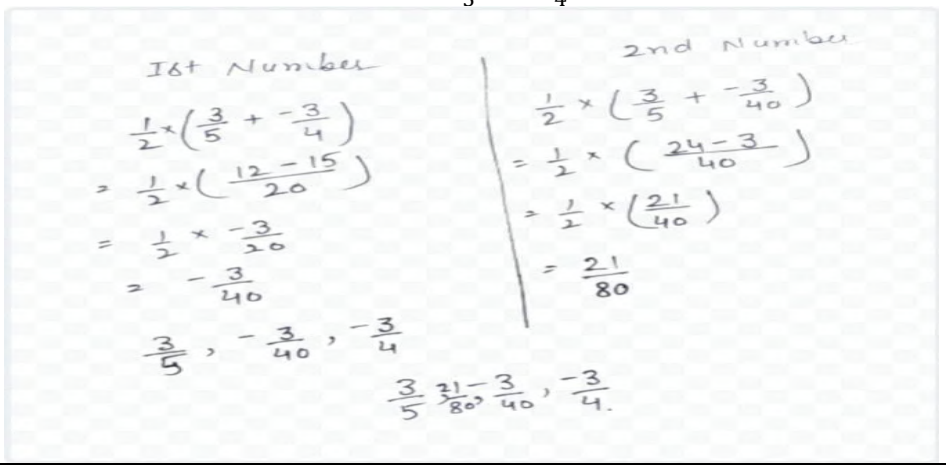
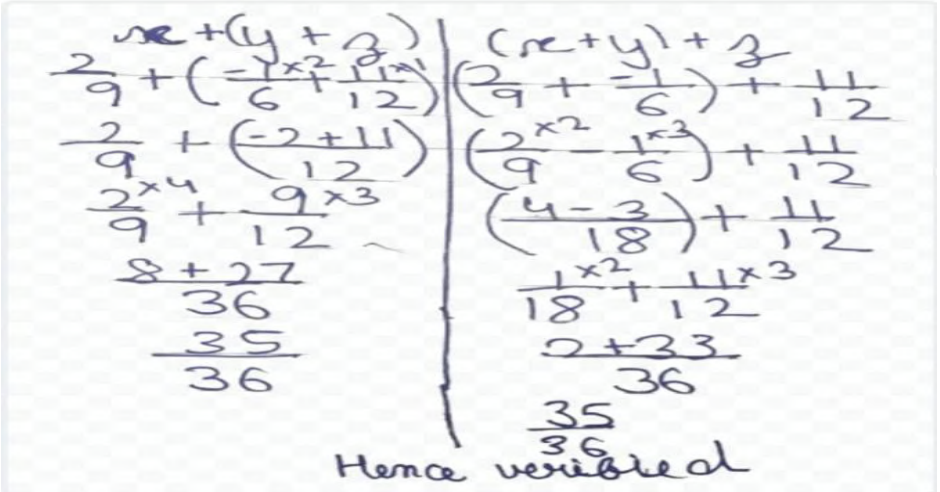
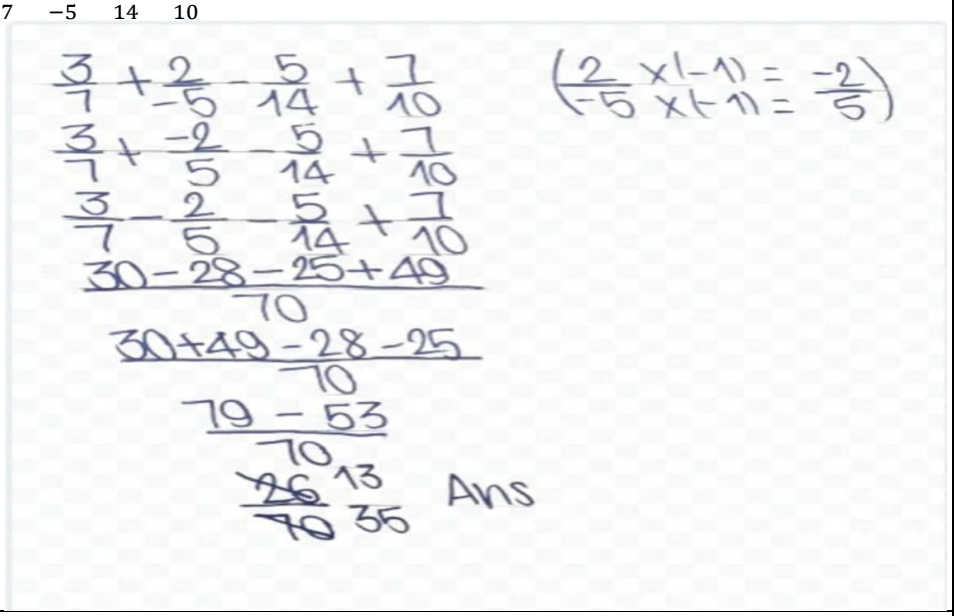
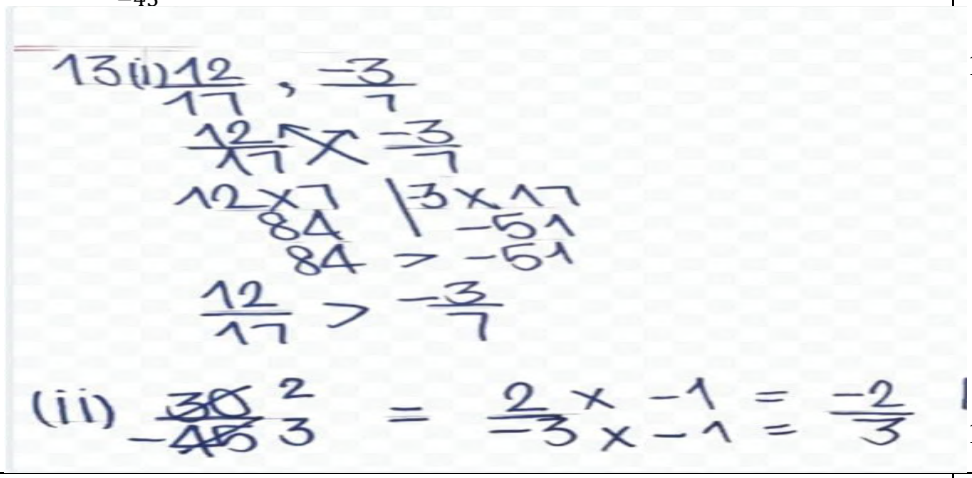
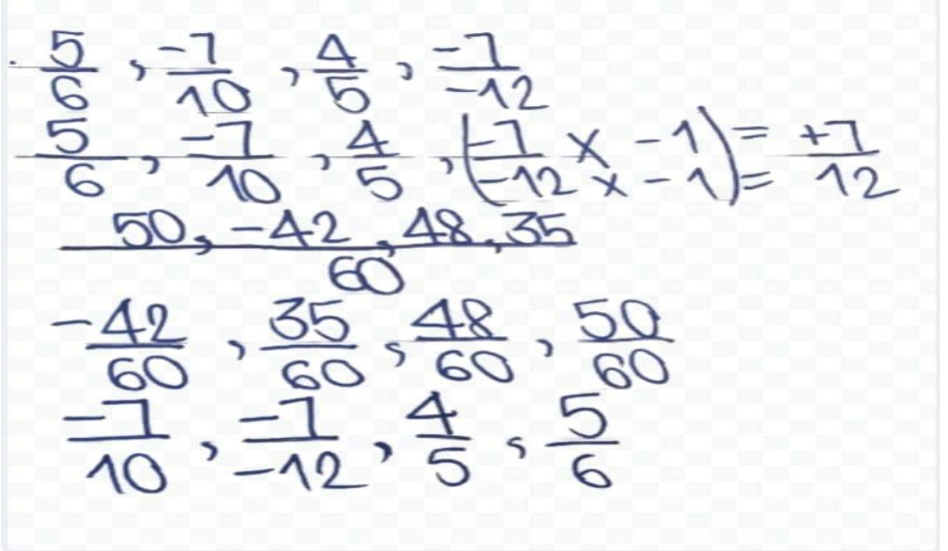
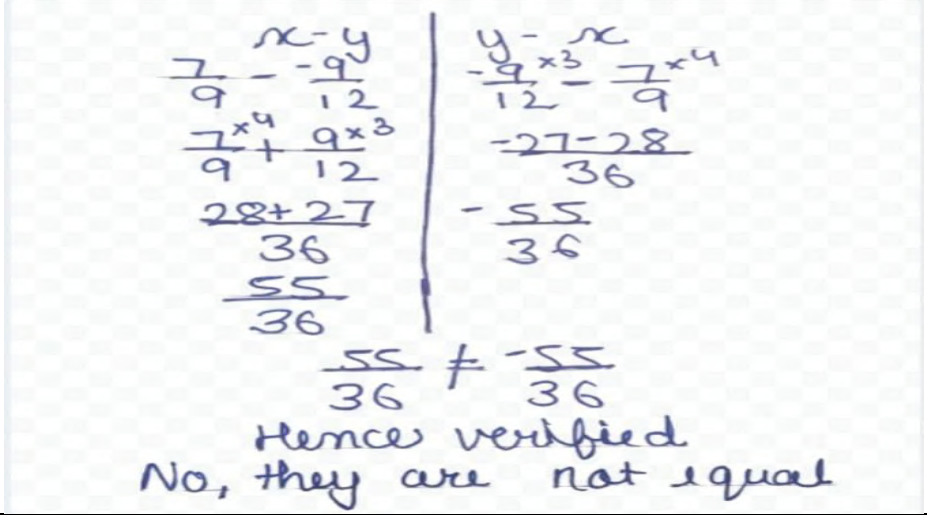
General Instructions:-

I. All questions are compulsory.

Q.No.	Value Points/Key Points	Marks allotted to each value point	Marks
	Section-A		
1.	-1	1	1
2.	b) $\frac{-8}{7}$	1	1
3.	a)1	1	1
4.	c) $\frac{4}{9}$	1	1
5.	(d)Assertion is false but reason is true.	1	1
	Section-B		
6.	Simplify: $\frac{1}{3}$ x ($\frac{5}{8}+\frac{1}{6}$) 	1+1	2
7.	By what number should we added to $\frac{-3}{7}$,so that the sum may be equal $\frac{5}{14}$? 	½ ½ 1	2
8.	Represent $\frac{4}{9}$ on a number line.	2	2

			
9.	Find the value of x. $\frac{5}{35} = \frac{x}{-63}$ 	½ ½ ½ ½	2
10.	Find two rational numbers between $\frac{3}{5}$ and $\frac{-3}{4}$ 	1+1	2
	Section-C		
11.	Verify that x+(y +z) =(x+y) +z for the following values: x = $\frac{2}{9}$, y = $\frac{-1}{6}$, z = $\frac{11}{12}$ 	1 ½ +1 ½	3

12.	Simplify: $\frac{3}{7}+\frac{2}{-5}-\frac{5}{14}+\frac{7}{10}$  	½ 2 ½	*3*
13.	i)Compare the following: $\frac{12}{17}, \frac{-3}{7}$ ii) Write $\frac{30}{-45}$ in standard form.  	1 ½ 1 ½	3
14.	Arrange the following rational numbers in ascending order. $\frac{5}{6}, \frac{-7}{10}, \frac{4}{5}, \frac{-7}{-12}$  	½ 1 ½ 1	3

15.	Find the value of x – y and y – y for $x=\frac{7}{9}$ and $y=\frac{-9}{12}$ .Are they equal? 	1 ½ + 1 ½	3