ਪਰਿਮੇਯਸੰਖਿਆਵਾਂ

ਗਣਿਤ -8:ਪਰਿਮੇਯਸੰਖਿਆਵਾਂ(ਰਾਜੀਵਕੁਮਾਰਸਸਸਸ.ਬਹਾਦਰਗੜ੍ਹ,ਪਟਿ)

1. ਸੈਕਸ਼ਨ-ਏ:

ਸਕੂਲਦਾਨਾਮ-ਸਸਸਸ. ਬਹਾਦਰਗੜ੍ਹ,ਪਟਿ।

ਅਧਿਆਪਕਦਾਨਾਂ-ਰਾਜੀਵਕੁਮਾਰ

ਜਮਾਤ - ਅਠਵੀਂ

ਵਿਸ਼ਾ - ਗਣਿਤ

ਅਧਿਆਇਦਾਨਾਮ **-ਪਰਿਮੇਯਸੰਖਿਆਵਾਂ**

ਪੀਰੀਅਡਾਂਦੀਗਿਣਤੀ - 10

ਪੀਰੀਅਡਦਾਸਮਾਂ - 40 ਮਿੰਟ

Section B

Objectives :

- B1: Usefulness in daily life.
- 1. Better understanding of Numbers.
- 2. Help in complicated calculations.
- 3. Improve in critical Thinking.
- 4. Improve Mental ability.

B2: Simplifying the complex:

1.It helps in understanding Basic operations of mathematics i.e. +,-,X, ÷

2.To understand properties associative, commutative, distributive, closure property.

B3: Life skills.

- 1. Helps in concentration.
- 2. Increase in knowledge.
- 3. Improve creativity.

B4: Vocabulary :

 1. Rational Number :ਪਰਿਮੇਯਸੰਖਿਆਵਾ

 (ਰੈਸ਼ਨਲਨੰਬਰ)

 2. Integers - : ਸੰਪੂਰਨਸੰਖਿਆਵਾ

 (ਇਨਟੀਜ਼ਰਜ਼)

 3.Whole Number - : ਪੂਰਨਸੰਖਿਆਵਾ

 (ਹੋਲਨੰਬਰ)

 4. Reciprocal - : ਉਲਟਕ੍ਸ

 (ਰੈਸੀਪਰੇਕਲ)

 5. Additive inverse - : ਜੋੜਾਤਮਕਉਲਟ

 (ਅਡੈਟਿਵਇਨਵਰਸ)

 6. Multiplicative inverse - : ਗੁਣਾਤਮਕਉਲਟ

 (ਮਲਟੀਪਲੀਕੇਟਵਇਨਵਰਸ)

Section C

Building Bridges :

- 1. Toconnect with previous knowledge.
- 2. Basic concept of Rational numbers, fractions.
- 3. Positive and Negative Rational Numbers.
- 4. Represent Rational Numbers on Number line.
- 5. Standard form of Rational Numbers.

Section D

Period wise breakup for each chapter.

1.	Previous knowledge and Introduction
2.	Rational numbers
3.	Commutative and Associative properties on
	four operations
4.	Rational Numbers (addition, Subtraction,
	Multiplication, Division)
5.	Negative of Rational Numbers.
6.	Representation of Rational Numbers on the
	number line.
7.	Rational Numbers between two Rational
	Numbers.

Period 1:

Entry behaviour 10 n of Teacher	c s	check the previous knowledge of	Students may not able to respond the question onnumbers.
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		2. What are whole numbers?3. What are Integers' ?4. What are fractions ?	
Introduction of topic	10 min	Teacher will explain about the fractions, numerator and denominator. Example : Suppose we have 10chocolates and we have to distribute it In 5 children. How will you divide it.? But if we have 5 chocolate and 10 children then what should we do.? Teacher will write on blackboard : 10 children 5 chocolates Share of each child $=\frac{s}{10}$ $=\frac{1}{2}$ So here $\frac{1}{2}$ is a fraction with 1 as num and 2 as deno.	Students will answer that we can give 2 chocolate to each child. Students may answer that we can give half chocolate to each child.
Def of fraction	10 min	Fraction is a number which represent part of a whole number that whole number can be a single object or group of objects. For example : = $\frac{5}{12}$ is a fraction and read as five – twelveth we divide a given region in 12 equal parts and take the 5 parts. 5 as numerator and 12 as denominator.	Teacher will use Flash Card to explain this Flash Card No.1,2,3
Def. of proper and Improper fraction.	10 min	Proper fraction: When deno. >num that fraction is called proper fraction	Use of flash card no. 4,5

$e.g. = \frac{s}{\gamma}$	
Improper fraction: When num>deno. That fraction is called improper fraction e.g. = $\frac{2}{3}$ Proper fraction is always less that 1 and improper fraction is always greater than 1.	

Period 2:

Def. of Rational numbers.	10 min	The word Rational number is created from the word "Ration" e.g. $3: 2 = \frac{3}{2}$ $= \frac{3}{2}$ is a rational number so a rational number is a number which can be represented in the form of $\frac{9}{q}$ where p, q are integers and q $\neq 0$, e.g. $\frac{4}{5}$, $\frac{-3}{8}$, $\frac{-9}{2}$	
Difference between Rational numbers and fractions		In fraction p,q are both +ve But in rational numbers p,q can be +ve as well as $-ve$ $(q \neq 0)$	
Closure property on whole numbers +,-,X, ÷	10 min	 0+5 =5, a whole number ∴Whole numbers are closed under addition 5-7 = -2, which is not a whole number ∴Whole number are not closed under subtraction. 	a + b is a whole number for any two a, b whole number
		0x4=0 3x7=21 ∴ Whole numbers are closed under multiplication 5+8=	a x b is a whole number for any two a , b whole numbers

		Whole number are not closed under division.	
Closure property on integers +,-,x, ÷	10 min	 -7 +2 = -5 an integer -7+(-5) = -12 an integer 2+(-9) = -7 an integer ∴ integers are closed under addition. 7-5 = 2 an integer -6-8 = -14 an integer -2-8 = -10 an integer 	a+b is an integer for any two integers a and b
		 ∴ integers are closed under Subtraction. 7x4 =28 an integer. -8x3= -24 an integer. -9 x-5 = +45 an integer. ∴ integers are closed under Multiplication. 	Any two integers a and b, a-b is again an integers.
		$5 \div 8 = \frac{1}{8}$ which is not an integer. \therefore integers are closed under division.	Any two integers a and b , a x b is also an integer.
Closure property on Rational numbers	10 min	$\frac{3}{8} + \frac{(-5)}{7}$ = $\frac{21+(-4)}{56} = -\frac{-19}{56}$ is a rational number = $\frac{-8}{8} + \frac{(-4)}{5}$ = $\frac{-15-(-32)}{40}$ = $\frac{-15-32}{40} = -\frac{-47}{40}$ = $\frac{-47}{40}$ is a rational number.	Any two rational number a and b, a+b is a rational number
			Any two rational

- Rational numbers are closed under	number a and b a-b is also a rational
addition.	number.
$\frac{-8}{7} - \frac{2}{3}$	
$=\frac{-5\pi-2\pi7}{21}=-\frac{-25}{21}$	
$\frac{3}{8} - \frac{4}{5} = \frac{25 - 32}{40} = \frac{7}{40}$	
$\frac{-29}{21}$, $\frac{7}{40}$ are rational numbers.	
Rational numbers are closed under subtraction.	
$\frac{-2}{3} \times \frac{4}{5} = \frac{-8}{15}$ is a rational	
$\frac{8}{7} \times \frac{2}{5} = \frac{6}{35}$ is a rational	
Rational numbers are closed under multiplication.	
multiplication. $\frac{-b}{3} \div \frac{2}{5} = \frac{-b}{3} \times \frac{b}{2} = \frac{-2b}{6}$	
$\frac{2}{7} \div \frac{3}{5} = \frac{2}{7} \times \frac{5}{3} = \frac{10}{21}$	
$\frac{0}{5} \div \frac{9}{3} = \frac{0}{5} \times \frac{3}{9} = 0$	
0 is not a rational number.	

3rd Period

Commutative property of	10 min	2+3 = 3+2	Addition is commutative or whole
whole numbers and integers		5+0 = 0+5	numbers and integer.
		For any two whole numbers a,b a+b = b+a 2-3 = -1	Subtraction is not commutative for whole numbers.
		Int 3-2 =1 a-b ≠ b-a	Multiplication is commutative for integer.
		2x3 =3x2	

		(-4) x5= 5x(-4)	
		$a \times b = b \times a$ for any two integer.	Division is not
		10÷ 5 = 2	commutative for whole numbers and
		5 ÷ 10 ≠2	integers.
		a ÷b ≠b÷a	
Commutative property of Rational numbers	10 min	$\frac{-2}{3} + \frac{5}{7} = \frac{-14 + 15}{21} = \frac{1}{21}$	Addition is commutative for rational numbers.
		$\frac{5}{7} + \frac{(-2)}{3} = \frac{15 - 14}{21} = \frac{1}{21}$	
		a+b = b+a for any two rational numbers	
		$\frac{2}{3} - \frac{5}{4} \neq \frac{5}{4} - \frac{2}{3}$	Subtraction is commutative for rational numbers.
		$\frac{2}{3} - \frac{5}{4} = \frac{3-15}{12} = \frac{-7}{12}$	
		$\frac{5}{4} - \frac{2}{3} = \frac{15 - 8}{12} = \frac{-7}{12}$	Multiplication is commutative for rational numbers.
		$\frac{-7}{3} - \frac{6}{5} = \frac{-42}{15}$	
		$\frac{6}{5} \times \frac{(-7)}{3} = \frac{-42}{15}$	
		a x b = b x a for any two rational number.	Division is commutative for
		$\frac{-5}{4} \div \frac{3}{7} = \frac{-5}{4} \times \frac{7}{3} = \frac{-35}{12}$	rational numbers.
		$\frac{3}{7} \div \frac{-5}{4} = \frac{3}{7} \times \frac{4}{-5} = -\frac{12}{35}$	
Associative property	10 min	(a+b) +c = a +(b+c) For any three integer	Addition is associative
For whole numbers and integers		(2-5) -3 ≠ 2-(5-3)	Subtraction is not associative
		a x (b x c) = (a x b) x c	Multiplication is

		associative
	[(-10) ÷2] ÷(-5) ≠(-10) ÷ [2 ÷ (-5)]	Division is not associative

Period 4:

r		I	
Assosiative property for rational numbers	10 mins	a+(b+c) = (a+b)+c	Addition is associative
	5 mins	a+(b+c) is not equal to (a+b)+c	Subtraction is not associative
	5 mins	a x(b x c) = (a x b) x c	Multiplication is associative
	10 mins	a ÷ (b ÷c) = (a ÷ b) ÷ c	Division is not associative
	2 mins	complete the table	
		Numbers Associative for addition subtraction multiplication division Rational numbers	
		No Integers	
		Yes	
		 Whole numbers Yes	
		Natural numbers	
Role of zero	3 mins	 No 	
			where a is a whole number
		a+0=0+a=a	where b is a integer
		b+0=0+b=b	

Role of 1	5 mins	c+0=0+c=c	where c is a rational number
		a x1 = 1 x a = a for any rational number a	1 is the multiplicative identity for rational numbers

Period V

Negative of a number	5 mins	2+ (-2) = (-2) +2 =0 we say 2is the negaitiveor additive inverse of -2	we have $a + (-a) = (-a) + a = 0$ so, a is the negative of $-a$ and $-a$ is the negative of a
Reciprocal	10 mins	if (a/b) x (c/d) =1	(c/d) is called reciprocal or multiplicative inverse of another raional number a/b if (a/b) x (c/d) =1
Distributivity of multiplication over addition for rational numbers	10 mins	a $(b + c) = ab + ac$ a $(b - c) = ab - ac$	property holds for all rational numbers a, b and c
examples	15 mins		will help the students to learn the concepts in a better way

Period VI

ਅਭਿਆਸ 1.1 ਸਵਾਲ 1–5	5 ਮਿੰਟ	ਪਿਛਲੇਕੰਮਦੀਦੁਹਰਾਈ	ਬਲੈਕਬੋਰਡਅਤੇ ਚਾਕਦੀਵਰਤੌਂ
		0	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤੌਂ
	5 ਮਿੰਟ	ਸਵਾਲਨੰ: 1	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤੌਂ
	5 ਮਿੰਟ	ਸਵਾਲਨੰ: 2	ਬਲੈਕਬੋਰਡਅਤੇ ਚਾਕਦੀਵਰ ਤੌਂ
	STHC		ਬਲੈਕਬੋਰਡਅਤੇ ਚਾਕਦੀਵਰ ਤੌਂ
	5 ਮਿੰਟ	ਸਵਾਲਨੰ: 3	

10 ਮਿੰਟ	ਸਵਾਲਨੰ: 4	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤੌਂ
10 ਮਿੰਟ	ਸਵਾਲਨੰ: 5	

Period VII

ਅਭਿਆ ਸ 1.1 ਸਵਾਲ 6-10	5 ਮਿੰ ਟ	ਪਿਛਲੇਕੰਮਦੀਦੁਹਰਾਈ	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤੌਂ
0-10		ਸਵਾਲਨੰ: 6,7	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤੌਂ
	5 ਮਿੰ	ਸਵਾਲਨੰ: 8,9	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤੌਂ
	ਟ	ਸਵਾਲਨੰ: 10,11	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤ ੋ ਂ
	5 ਮਿੰ ਟ	ਅਧਿਆਪਕਆਪਣੇਵਲੌਂਸਵਾਲਲੈਕੇਜਮਾਤਵਿੱਚਕਰਵਾ ਏਗਾ । ਸਵਾਲਨੰ: 5	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤੌਂ
	5 ਮਿੰ ਟ		ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵ ਰਤੌਂ
	20 ਮਿੰ		

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Period VIII

Representation of rational numbers on the number line	5 mins	Natural numbers	The line extends indefinitely only to the right side of 1
	5mins	Whole numbers	The line extends indefinitely only to the right side of 0
	5 mins	Integers	The line extends to the both sides of zero indefinitely.
	10 mins	Rational numbers	The line extends to the both sides of zero indefinitely but now we see numbers between integers
	15 mins	to represent different rational numbers on number line	Flash card no 6,7

Period IX

Rational numbers between two rational numbers	15 mins	Number of natural numbers between two natural numbers	There are definite number of natural numbers between two natural numbers
		Number of Integers between two integers	There are definite number of integers between two integers. Flash card no 8

10 mins	Number of rational numbers between two rational numbers	there are countless rational numbers between two rational numbers
15 mins	Examples to find number of rational numbers between any two given rational numbers	Will help the students to learn the concept in a better way

Period X

ਅਭਿਆਸ 1.2 ਪੂਰੀ	15 ਮਿੰਟ	ਸ਼ਵਾਲਨੰ: 1,2	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤ ੌਂ
	10 ਮਿੰਟ	ਸਵਾਲਨੰ: 3,4	ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤੌਂ
			ਬਲੈਕਬੋਰਡਅਤੇਚਾਕਦੀਵਰਤ ੌਂ
	15 ਮਿੰਟ	ਸਵਾਲਨੰ: 5,6,7	

ਸੈਕਸ਼ਨF–

ਸਮੱਗਰੀ (ਵਿਸ਼ਾ- ਵਸਤੂ)

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ਅਧਿਆਪਕਕੋਲਜਮਾਤਵਿਚਵਿਸ਼ੇਨਾਲਸਬੰਧਿਤਸਾਰੀਸਰੋਤਸਮੱਗਰੀ (ਟੀ.ਐਲ.ਐਮ) ਹੋਣੀਚਾਹੀਦੀਹੈ।
ਅਧਿਆਪਕਦੀਵਿਸ਼ੇਉੱਪਰਪਕੜਮਜ਼ਬੂਤਹੋਣੀਚਾਹੀਦੀਹੈ ।
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ਅਧਿਆਪਕਵਿਸ਼ੇਨਾਲਸਬੰਧਿਤਨੋਟਸਵੀਤਿਆਰਕਰਸਕਦਾਹੈਜੋਕਿਲੋੜਪੈਣਤੇਵਰਤ	ਸਕੇ	I.
ਨੋਟਸਤਿਆਰਕਰਨਲਈਅਧਿਆਪਕਨੈਟ,		
ਸਬੰਧਿਤਹੋਰਪੁਸਤਕਾਂਅਤੇਹੋਰਦਿਲਚਸਪਸਮੱਗਰੀਉਪਲੱਬਧਦਾਇਸਤੇਮਾਲਕਰਸਕਦਾਹੈ		I.
ਨੋਟਸਵਿਚਵਿਸ਼ੇਨੂੰਸਰਲਰੂਪਵਿਚਪੇਸ਼ਕੀਤਾਜਾਣਾਚਾਹੀਦਾਹੈ ।		

ਉਪਭਾਗf1-

ਸਬੰਧਿਤyoutubeਦਾਹਵਾਲ<u>ਾhttps://www.youtube.com/watch?v=joZ3TOTfPkg</u>,

https://www.youtube.com/watch?v=1DHqRtPuG-4

ਉਪਭਾਗf2– ਸਬੰਧਿਤਪੁਸਤਕਾਂਦਾਹਵਾਲਾ; R.D. SHARMA CLASS VIII, R.S AGGARWAL CLASS VIII

ਸੈਕਸ਼ਨG –

ਸੰਭਵਕ੍ਰਿਆਵਾਂ (ਸਰਗਰਮੀਆਂ) ਦੀਸੂਚੀ :

ਵਿਸ਼ੇ / ਹਨਰ /	ਸੰਭਵਕ੍ਰਿਆਵਾਂਦਾਨਾਂ	
—	ABEIQNIEIEIO	
ਸਿੱਟੇਦਾਨਾਂ		
Α.	ਫਲੈਸ਼ਕਾਰਡਦੀਵਰਤੋਂਕਰਕੇਪਰਿਮੇਯਸੰਖਿਆਂਵਾਂਬਾਰੇਦੱਸਣਾ ।	ਰੰਗਦਾਰਚਾਕ,
ਅਧਿਆਪਕਦੀਜਾਣਪਛਾਣ		ਡਸਟਰਅਤੇਚਿੱਤਰਦੀਸਹ
		ਬਲੈਕਬੋਰਡਉੱਪਰਉਦਾਹਰ
		ਬਲੈਕਬੋਰਡਉੱਪਰਉਦਾਹਰ
		ਵਿਸ਼ੇਨਾਲਸਬੰਧਿਤਹੋਰਸਵ
J. ਸੋਚਸ਼ਕਤੀਵਧਾਉਣਾ	ਦੈਨਿਕਜੀਵਨਵਿੱਚੋਂਵੱਖ-ਵੱਖਸਵਾਲਪ <u>ੁੱ</u> ਛਣੇ	
H.ਸਮੂਹਕਿਰਿਆਵਾਂ	ਵਿਦਿਆਰਥੀਆਂਦੇਗਰੁੱਪਬਣਾਕੇਪਰਿਮੇਯਸੰਖਿਆਂਵਾਂਬਾਰੇਸਮਝਾਉਣਾ	
L. ਰਚਨਾਤਮਕਗੁਣ	ਕੰਪਿਊਟਰਦੀਮਦਦਨਾਲਪਰਿਮੇਯਸੰਖਿਆਂਵਾਬਾਰੇਸਮਝਾਉਣਾ	

M.ਪੇਸ਼ਕਾਰੀਗੁਣ	ਵਿਦਿਆਰਥੀਆਂਤੌਂਪਰਿਮੇਯਸੰਖਿਆਂਵਾਬਾਰੇਦੱਸਣਨੂੰਕਹਿਣਾ	
N.ਖੋਜ	ਵਖ-ਵੱਖਹਿਸਾਬਦਾਨਾਂਦੇਕੀਤੇਖੋਜਬਾਰੇਦੱਸਣਾ	
O.ਸ਼ਬਦਾਵਲੀ	CROSSWORD	

ਸੈਕਸ਼ਨ H:→

ਵਿਦਿਆਂਰਥੀਆਂਦੇਮੁਲਾਂਕਣਦਾਤਰੀਕਾਅਧਿਆਪਕਵੱਲੋਂਵਿਦਿਆਰਥੀਦੇਵਿਕਾਸਦਾਇੱਕਅਜਿਹਾ ਮੁਲਾਂਕਣਤਿਆਰਕਰਨਾਜੋਅਧਿਆਪਕਅਤੇਮਾਪਿਆਂਨੂੰਵਿਦਿਆਰਥੀਦੇਵਿਕਾਸਦੀਸਿੱਧੀਜਾਣਕਾ ਰੀਦੇਣ। ਰਿਪੋਰਟਕਾਰਡਦੀ ਥਾਂ ਸਕੋਰਕਾਰਡਦੀਵਰਤੋਂਕੀਤੀਜਾਸਕਦੀਹੈ।

ਉੱਪਭਾਗ H1 :→1.ਕੀ 0 ਪਰਿਮੇਯਸੰਖਿਆਹੈ ?

2. ਕੀ 3/2 ਪਰਿਮੇਯਸੰਖਿਆਹੈ ?

3**. ਕੀ∨5 ਪਰਿਮੇਯਸੰਖਿਆਹੈ** ?

 4.
 ਜੇਕਰ
 5
 ਰੋਟੀਆਂਨੂੰ
 10

 ਵਿਦਿਆਰਥੀਆਂਵਿੱਚਵੰਡਾਂਗੇਤਾਂਹਰਇੱਕਵਿਦਿਆਰਥੀਨੂੰਕਿੰਨੀਆਂਰੋਟੀਆਂਆਉਣਗੀਆਂ ?
 10
 10
 10
 10

ਜੇਕਰ ਘਰ ਵਿੱਚਰੋਜ਼ਢਾਈਕਿੱਲੋਦੁੱਧਆਉਂਦਾਹੈਤਾਂ 30 ਦਿਨਾਂਵਿੱਚਕਿੰਨਾਦੁੱਧਆਵੇਗਾ
 ?

6. ਅੱਧਾਕਿੱਲੋ + ਪਾਈਆ = ____ਕਿਲੋ

7. ਜੇਕਰ 5 ਕਿਲੋਦੁੱਧਵਿੱਚੋਂ 1 ਕਿਲੋਖੋਆਨਿਕਲਦਾਹੈਤਾਂ 5 ਕਿਲੋਖੋਏਲਈਕਿੰਨੇਕਿਲੋਦੁੱਧਦੀਲੋੜਪਵੇਗੀ ?

8. 5 ਕਿਲੋਚੀਨੀਮਾਪਣਲਈਪਾਈਆ –ਪਾਈਆਕਿੰਨੇਵੱਟੇਚਾਹੀਦੇਹਨ ?

9. Write the rational that does not have a reciprocal ?

10. Write the rational number that is equal to its negative ?

11. Write the rational number that is equal to its reciprocal ?

12. Reciprocal of -5 is
13. Reciprocal of 1/x , x not equal to 0 is
14. Product of two rational number is always a
15. The reciprocal of positive rational number is
16. Which is the additive identity for rational number ?
17. Which is the multiplicative identity for rational number?
18. Can rational numbers be represented on the number line?
19. How many rational numbers are between 3/10 and 7/10
20 What is the additive inverse of 3/5 ?
21. if a and b are two rational numbers then what about a-b?
22. ਇੱਕਪਾਈਆਇੱਕਕਿੱਲੋਦਾਕਿੰਨਵਾਂਭਾਗਹੁੰਦਾਹੈ ?
23.Tell the property allow you to compute $1/3 * (6* 4/3)$ as $(1/3 * 6) * 4/3$
24.If a and b are Rational then what about a * b .
25.a÷0 is defined or not ?

ਸੈਕਸ਼ਨ। :→ਅਧਿਆਪਕਲਈਮੁਲਾਂਕਣਨਿਰਧਾਰਨਸੰਦ

- 1. ਕੀਅਧਿਆਪਕਪਰਿਮੇਯਸੰਖਿਆਦੇਜੋੜਦੀਕੋਈਹੋਰਕਿਰਿਆਜਾਣਦਾਹੈ ?
- 2. ਕੀਅਧਿਆਪਕਪਰਿਮੇਯਸੰਖਿਆਦੇਘਟਾੳਦੀਕੋਈਹੋਰਕਿਰਿਆਜਾਣਦਾਹੈ ?
- 3. ਕੀਅਧਿਆਪਕਪਰਿਮੇਯਸੰਖਿਆਦੇਗੁਣਾਦੀਕੋਈਹੋਰਕਿਰਿਆਜਾਣਦਾਹੈ ?
- 4. ਕੀਅਧਿਆਪਕਪਰਿਮੇਯਸੰਖਿਆਦੇਭਾਗਦੀਕੋਈਹੋਰਕਿਰਿਆਜਾਣਦਾਹੈ ?
- 5. ਸ਼ਾਰਟਕਟਫਾਰਮੂਲਿਆਂਦਾਅਧਿਆਪਕਲਈਕੀਮਹੱਤਵਹੈ ?
- 6. ਪਹਾੜਿਆਂਦਾਗਣਿਤਵਿਸ਼ੇਨੂੰਪੜਾਉਣਲਈਕਿੰਨਾਯੋਗਦਾਨਹੈ ?
- 7. ਕੀPlayway techniques Math ਵਿਸ਼ੇਲਈਜਿਆਦਾਫਾਇਦੇਮੰਦਹਨ ?
- 8. ਇੱਕਗਣਿਤਅਧਿਆਪਕਆਪਣੇਵਿਸ਼ੇਨੂੰ ਬਣਾਉਣਲਈਵਿਦਿਆਰਥੀਆਂਦੀਮਦਦਕਿਸਤਰਾਂਕਰਸਕਦਾਹੈ ?

ਰੋਚਕ

9. ਵਿਦਿਆਰਥੀਆਂਨੂੰਗਣਿਤਸਿਖਾਉਣਦੇਕੀਫਾਇਦੇਹਨ ?

10. ਕੀਅਧਿਆਪਕਆਪਣੇਵਿਸ਼ੇਨੂੰਪੜਾਉਣਲਈਕੰਪਿਊਟਰਦੀਮਦਦਲੈਂਦਾਹੈ ?

Annexurelਪ੍ਰਫਾਰਮਾ:ਸਰਗਰਮੀ (ਕਿਰਿਆ) ਦੀਵਿਸਤ੍ਰਿਤਜਾਣਕਾਰੀਸਬੰਧੀ:→

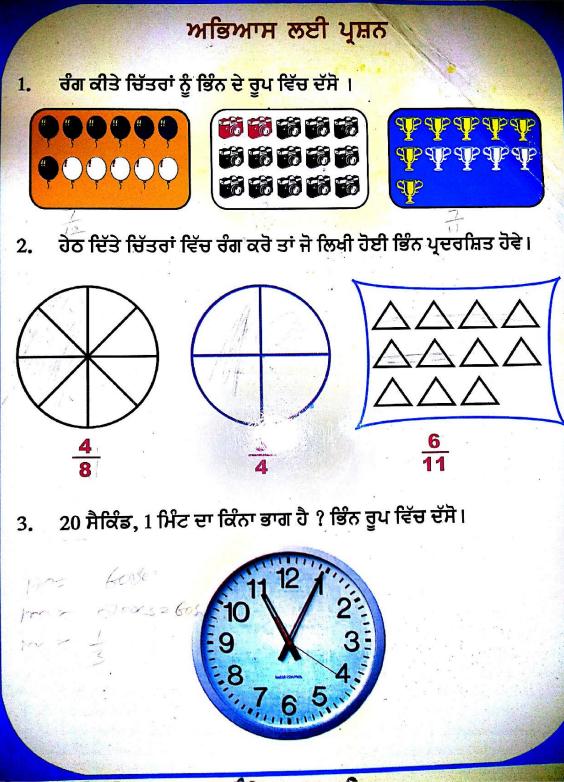
ਕਿਰਿਆਦਾਨਾਂ	Flash card 1-8
ਵਿਸ਼ੇਨੂੰਸਪਸ਼ਟਰੂਪਨਾਲਦੱਸਣਾ	
ਕਿਰਿਆਦੀਕਿਸਮ (ਨਿਜੀਕਿਰਿਆ / ਸਮੂਹਵਿਚਕਿਰਿਆ /	
ਘਰ ਦਾਕੰਮ)	
ਕਿਰਿਆਲਈਲੋੜੀਂਦਾਸਮਾਨ	
ਜਮਾਤਵਿਚਕਿਰਿਆਕਰਵਾਉਣਲਈਕਿਸੇਵਿਸ਼ੇਸ਼ਤਿਆਰੀਦੀਲੋੜ	
ਕਿਰਿਆਦਾਵਿਸਥਾਰਪੂਰਵਕਵਰਨਣਅਤੇਨਿਰਦੇਸ਼	
ਕਿਰਿਆਦਾਵਰਣਨਕਰਕੇਚਿੱਤਰ	
ਵਿਸ਼ੇਨਾਲਸਬੰਧਿਤਸਾਵਧਾਨੀਆਂ	
ਕਿਰਿਆਦੇਸਿੱਟੇਦੀਵਿਆਖਿਆ	
ਸਿੱਖਿਆਦਾਮੁਲਾਂਕਣ	

Attached documents

Flash cards



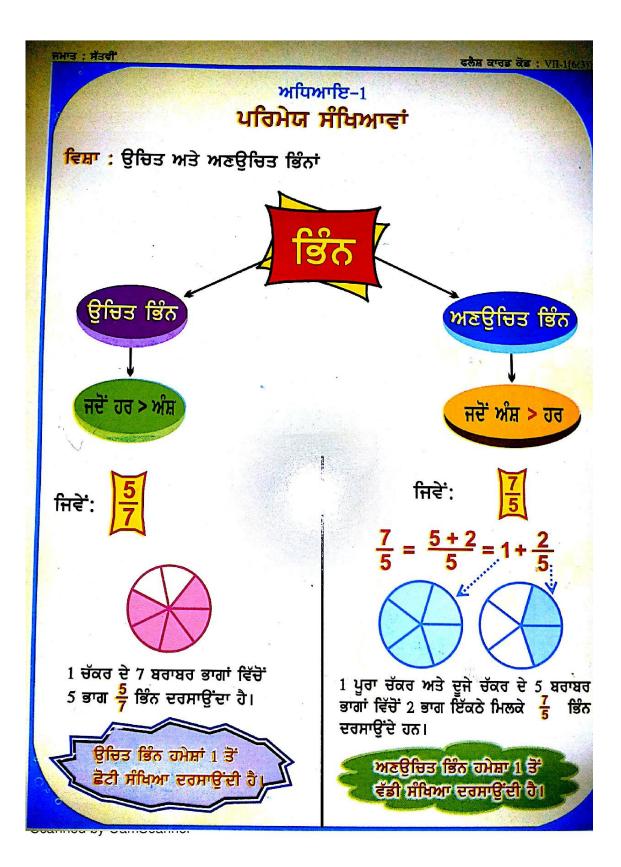
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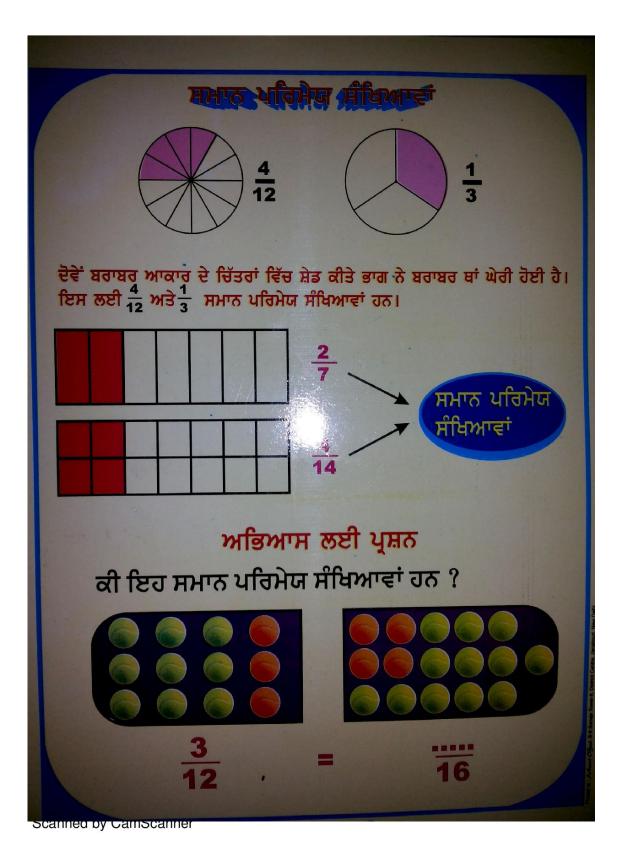


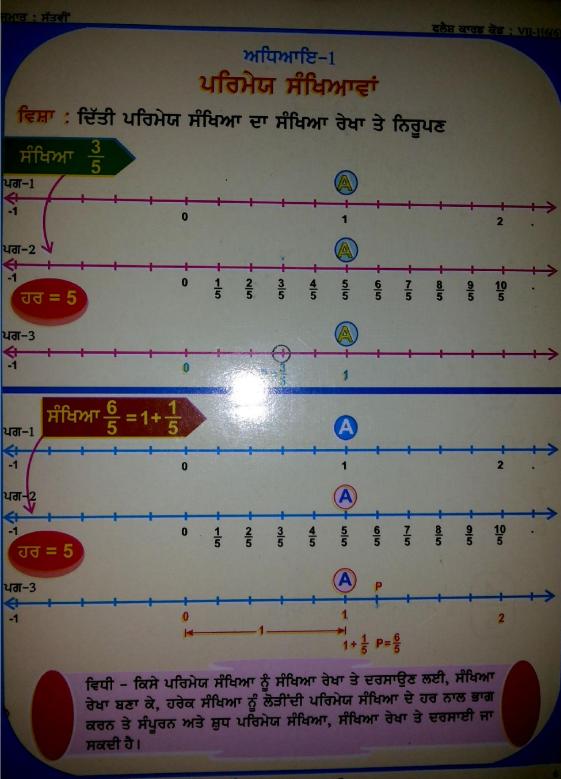
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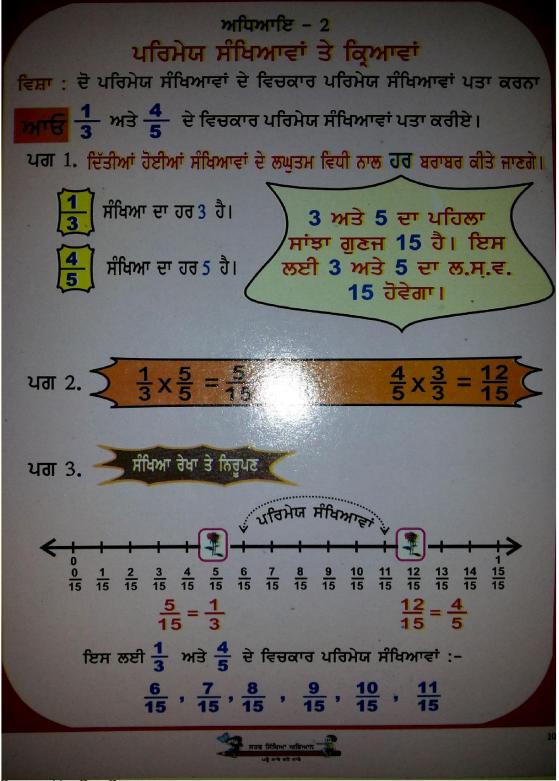


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