Vacation Work for class- Ten		c) 0.Ż	d) 0.2	
Chapter One	9.	What is the value	e of 42.18 × 0.28?	
Chapter-One			[C.B 20, S.B 20]	
Withematics		a) 0.132	b) 12.185	
Real Number		c) 13.250	d) 11.810	
Creative Multiplication Choice Questions	10.	Which one is sim	ple fraction of 4.78?	
1. 0.45 = What? [D.B 20, Dj.B 17,		71	[Ctg.B 20]	
R.B 15]		a) $4\frac{71}{90}$	b) $4\frac{78}{9}$	
a) $\frac{41}{99}$ b) $\frac{5}{11}$		c) $4\frac{78}{90}$	d) $4\frac{75}{9}$	
c) $\frac{41}{1}$ d) $\frac{1}{1}$	11.	Which one is rati	onal number?	
$2 \qquad \qquad$			[Ctg.B 20]	
root of 0.0025? [D.B 20]		a) $\sqrt{3}$	b) √8	
a) Recurring decimal		c) $\sqrt[3]{6}$	d) $\sqrt[3]{8}$	
b) Open ended non-recurring decimal	12.	If p and q are tw	vo integers then what	
c) Infinite decimal		should be added	to $p^2 + q^2$ to obtain	
d) Definite decimal		a whole squared : a) -2pq	( <b>5.B</b> 20)	
3. Which one is a rational number?		c) $pq$	d) 4pa	
$\sqrt{18}$ $\sqrt{3}$	13.	Which one is th	e approximate value	
a) $\frac{1}{\sqrt{32}}$ b) $\frac{1}{\sqrt{2}}$		up to three de	cimal places of the	
c) $\frac{\sqrt{8}}{\sqrt{6}}$ d) $\frac{1}{\sqrt{8}}$		number 0.99973.	? [J.B 20]	
4. What type of number $\frac{2}{2}$ is? [My.B 20]		a) 0.999	b) 0.999	
a) Rational Number		c) 1.000	d) 0.100	
b) Irrational Number	14.	Which one is th	e simple fraction of	
c) Natural Number		<b>0.83</b> ( 5	[ <b>D.D 20</b> ]	
d) Non terminating decimal		a) –	b) $\frac{1}{90}$	
5. If $a = \sqrt{3}$ and $b = \sqrt{12}$ then which one		c) $\frac{63}{99}$	d) $\frac{6}{5}$	
is irrational number? [My.B 20]	15.	What is to be add	ded to the product of	
a) $a + b$ b) $ab$		four consecutive	e natural numbers	
c) $\frac{1}{b}$ d) $\frac{2}{a}$		become a perfect	square: [В.В 20]	
6. Which of the following is irrational		c) 9	d) 81	
number? [R.B 20]	16.	Convert 0.234 in	nto common fraction.	
a) $\frac{\sqrt{64}}{\sqrt{36}}$ b) $\frac{\sqrt{6}}{\sqrt[3]{27}}$			[D.B 19]	
c) $\sqrt{\frac{81}{81}}$ d) $\frac{\sqrt[3]{8}}{\sqrt{8}}$		a) $\frac{211}{000}$	b) $\frac{234}{200}$	
$\sqrt{625}$		c) $\frac{234}{234}$	d) $\frac{26}{26}$	
7. Which one is the simple fractions of	17	900 Which is the sime	$^{\circ}$ 111	
<b>U.33?</b> [K.B 20]	1/.	which is the shirt	[R.R 19]	
a) $\frac{100}{22}$ b) $\frac{90}{90}$		a) $\frac{5}{-}$	b) $\frac{11}{1}$	
c) $\frac{33}{99}$ d) $\frac{30}{90}$		" <sup>9</sup> 、11	18 1) 50	
8. Which one is the value of $0.3 \times 0.6$ ?		c) $\frac{1}{9}$	d) $\frac{1}{99}$	
[Dj.B 20]	18.	Which one is th	e simple fraction of	
a) 0.18 b) 0.18		0.57?	[D].B 19]	

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	a) $\frac{31}{45}$	b) $\frac{26}{45}$		c) ii and iii	d) i, ii and iii
	<sup>2</sup> 45 52	45 1) 57	28.	Which one is a na	tural number?
	c) $\frac{1}{99}$	a) <u>90</u>			[All B 18]
19.	What kind of num	ber $\sqrt{\frac{12}{12}}$ is?		a) -1	b) $\sqrt{2}$
		√75		c) $\frac{5}{2}$	d) 3
	a) Natural	[ <b>D</b> ]. <b>B</b> [9]	29.	Which one of the	following is rational
	a) Inatural	d) Prime		number?	[D.B 17]
2.0	Which one of the	the following is the			
20.	rational number?	[Ctg.B 19]		a) $2\sqrt{3}$	b) $\sqrt{7}$
	$\sqrt{5}$	$\sqrt{27}$		$\frac{\sqrt{3}}{\sqrt{3}}$	$d$ $\sqrt{12}$
	a) $\sqrt{10}$	b) $\frac{1}{\sqrt{48}}$		$\frac{1}{\sqrt{2}}$	(d) $\sqrt{3}$
	c) $\frac{\sqrt{6}}{2}$	d) $\frac{\sqrt{8}}{\sqrt{7}}$	30.	Which one of	the following is a
21.	Which one of th	ne following is the		rational number?	[К.В 1/]
	common fraction	of 0.31? [D.B 19]			16
	a) $\frac{28}{28}$	b) $\frac{31}{31}$		a) √11	b) $\frac{\sqrt{6}}{3}$
	" <sup>7</sup> 99 、14	100 100		c) $\frac{\sqrt{8}}{\sqrt{8}}$	d) $\frac{\sqrt{27}}{\sqrt{27}}$
	c) $\frac{1}{45}$	d) $\frac{1}{90}$	- 31	Which one is the	ve rational number?
22.	Which one is the	e simple fraction of		Which one is th	[Di.B 17]
	3.2?	<b>[S.B 19]</b>		a) $\sqrt{5}$	b) $\sqrt[3]{8}$
	a) $3\frac{1}{3}$	b) $3\frac{2}{9}$		c) $\sqrt{3}$	d) $\sqrt[3]{7}$
	c) $3\frac{5}{2}$	d) $3\frac{7}{2}$	32.	Which one be	low is a rational
23.	$0.2\dot{7} + 0.\dot{3} = What$	? [ <b>J.B 19</b> ]		number?	[Ctg.B 17]
201	a) 5.4	b) 0.54			
	c) 0.61	d) 0.17		a) $\frac{\sqrt{12}}{\sqrt{12}}$	b) $\frac{\sqrt{8}}{\sqrt{8}}$
24.	Which one is the	irrational number?		3	$\frac{2}{\sqrt{18}}$
		[J.B 19]		c) $\frac{3}{\sqrt{5}}$	d) $\frac{\sqrt{10}}{\sqrt{2}}$
	a) √9	b) $\sqrt{7}$	33.	Which one of	the following is a
	c) 0.5	d) 0.10		rational number?	[C.B 17]
25.	$0.\dot{4}\times0.\dot{3}=\mathbf{W}\mathbf{hat}$	? [B.B 19]			
				a) √729	b) √11
	a) 1.2	b) 0.12		c) $\frac{\sqrt{7}}{3}$	d) 3.2354678
	c) 0.102	d) 0.148	34.	Which one is th	e simple fraction of
26.	If $a, b, c \in \mathbb{R}$ ; $a > W$	$\mathbf{b} > 0$ and $\mathbf{c} < 0$ .		0.45?	[Dj.B 17]
	Which one of the	tollowing is correct?			
	a) $ac = bc$	$[\mathbf{D}.\mathbf{D}.\mathbf{-19}]$		a) $\frac{4}{2}$	b) $\frac{9}{22}$
	a) $uc = bc$	d) at $ > bc$		$\frac{5}{5}$	d) $\frac{9}{9}$
27	If $\mathbf{v} = 0 \dot{4}$ and $\mathbf{v} = 0$	$\mathbf{\dot{A}} = \mathbf{\dot{A}} $	25	$\frac{0}{11}$	$\frac{u}{11}$
27.	$i x + v - 1\dot{3}$		35.	frontian of 0.242	e tonowing is simple
	$\frac{11}{11} xy = \frac{32}{10}$			fraction of 0.24?	[Cig. <b>B</b> 1/]
	$\frac{11}{11} \frac{x}{11} $			2) 8	b) $\frac{11}{11}$
	$\lim_{y \to 0.5} \frac{1}{y} = 0.5$			a) <u>33</u> 4	45
	Which one of the f	following is correct?		c) $\frac{1}{15}$	d) $\frac{3}{3}$
	a) i and ii	b) i and iii			

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36.	Which one is the simple fraction of	c)	$\sqrt{0.04}$ d) $\sqrt{0.025}$
	0.69? [S.B 17]	43. Wh	lich one of the following is
	7	irra	itional? [Ctg.B 16]
	a) $\frac{7}{11}$ b) $\frac{69}{100}$		
	c) $\frac{23}{7}$ d) $\frac{7}{7}$	a)	$\frac{\sqrt{5}}{\sqrt{4}}$ b) $\frac{\sqrt{75}}{\sqrt{27}}$
37	Which one is the simple fraction of		$\sqrt[3]{4}$ $\sqrt[3]{2}$ $\sqrt[3]{18}$
57.	0.0122	c)	$\frac{1}{\sqrt{8}}$ d) $\frac{1}{\sqrt{2}}$
	U.012 : [J.D 1/]	44. All	integers and fractional numbers
	× 11	are	[J.B 16]
	a) $\frac{1}{900}$ b) $\frac{1}{990}$		
	c) $\frac{11}{999}$ d) $\frac{111}{1000}$	a)	Irrational number
38.	In case of real number- [S.B 17]	b)	Rational number
	i. $\sqrt{81}$ is an odd number	c)	Natural number
	ii. 0.21 is an improper fraction	$\begin{array}{c} \mathbf{a} \\ 45  \mathbf{W} \\ \mathbf$	inch one of the following is an
	iii. 0 is an integer	irr	ational number? [D B - 15]
	Which one of the following is correct?		
	a) i and ii b) i and iii	a)	4 b) $\sqrt{\frac{16}{9}}$
	c) ii and iii d) i, ii and iii		3 64
39.	If a, b, c are real numbers than	c)	$\sqrt{\frac{3}{8}}$ d) $\sqrt{2}$
	[ <b>R.B</b> 17]	46. Wł	ich one of the following is the
	i. $a(b+c) = ab + ac$	con	nmon fraction of 0.45? [R.B 15]
	ii. If $a < b$ than $a + c < b + c$	a)	$\frac{4}{2}$ b) $\frac{9}{2}$
	iii. If $a < b$ and $c < 0$ then $ac > bc$		9 20 5 1) 9
	Which one of the following is correct?	c)	$\frac{1}{11}$ d) $\frac{1}{11}$
	a) i and ii b) i and iii	47. Wł	lich is the lowest prime number?
	c) ii and iii d) i, ii and iii		[J.B 15]
40		- 1	0 b) 1
40.	Of two irrational numbers – [B.B 16]	a)	1 1 2
40.	i. Sum is always an irrational number.	a) c)	2 d) 3 ich one is the simple fraction of
40.	<ul> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> </ul>	a) c) 48. Wh	2 d) 3 ich one is the simple fraction of
40.	<ul> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or</li> </ul>	a) c) 48. Wł 5.7	2 d) 3 ich one is the simple fraction of $\hat{B}$ ? [C.B 15]
40.	<ul> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational</li> </ul>	a) c) 48. Wh 5.7 a)	2 d) 3 <b>ich one is the simple fraction of</b> <b>8?</b> [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$
40.	<ul> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> </ul>	a) c) 48. Wh 5.7 a) c)	2 d) 3 iich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$
40.	<ul> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii</li> <li>b) i and iii</li> </ul>	a) c) 48. Wh 5.7 a) c) 49. Wh	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a
40.	<ul> <li>i. Sum is always an irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> </ul>	a) c) 48. Wh 5.7 a) c) 49. Wh rat	2 d) 3 ich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B 15]
40.	<ul> <li>i. Sum is always an irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii</li> <li>b) i and iii</li> <li>c) ii and iii</li> <li>d) i, ii and iii</li> <li>Which one is the simple fraction of</li> </ul>	a) c) 48. WH 5.7 a) c) 49. WH rat a)	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{9}$
40.	<ul> <li>i. Sum is always an irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> </ul>	a) c) 48. WH 5.7 a) c) 49. WH rat a)	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\sqrt{8}$
40.	<ul> <li>i. Sum is always an irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> </ul>	a) c) 48. Wh 5.7 a) c) 49. Wh rat a) c)	2 d) 3 ich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B 15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$
40.	<ul> <li>of two irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> </ul>	a) c) 48. Wh 5.7 a) c) 49. Wh rat a) c) 50. Wh	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ at is the value of 0.51? [Ctg.B15]
40.	<ul> <li>of two irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> <li>a) <sup>8</sup>/<sub>3</sub> b) <sup>8</sup>/<sub>33</sub></li> <li>c) <sup>8</sup>/<sub>3</sub></li> </ul>	a) c) 48. WH 5.7 a) c) 49. WH rat a) c) 50. WH a)	2 d) 3 ich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B 15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ at is the value of 0.51? [Ctg.B 15] $\frac{23}{45}$ b) $\frac{51}{100}$
40.	<ul> <li>of two irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> <li>a) <sup>8</sup>/<sub>3</sub> b) <sup>8</sup>/<sub>33</sub></li> <li>c) <sup>8</sup>/<sub>5</sub> d) 5</li> <li>Which one is the fill is in iterational for the following is correct.</li> </ul>	a) c) 48. Wh 5.7 a) c) 49. Wh rat a) c) 50. Wh a)	2 d) 3 ich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B 15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ at is the value of 0.51? [Ctg.B 15] $\frac{23}{45}$ b) $\frac{51}{100}$ 1 d) $\frac{23}{3}$
40. 41. 42.	<ul> <li>of two irrational numbers - [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> <li>a) <sup>8</sup>/<sub>3</sub> b) <sup>8</sup>/<sub>33</sub></li> <li>c) <sup>8</sup>/<sub>5</sub> d) 5</li> <li>Which one of the following is a rational number?</li> </ul>	a) c) 48. WH 5.7 a) c) 49. WH rat a) c) 50. WH a) c)	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ eat is the value of 0.51? [Ctg.B15] $\frac{23}{45}$ b) $\frac{51}{100}$ $\frac{1}{2}$ d) $\frac{23}{99}$
40. 41. 42.	<ul> <li>of two irrational numbers – [B.B 16]</li> <li>i. Sum is always an irrational number.</li> <li>ii. Difference is always an irrational number.</li> <li>iii. Product can be either rational or irrational.</li> <li>Which one of the following is correct?</li> <li>a) i and ii b) i and iii</li> <li>c) ii and iii d) i, ii and iii</li> <li>Which one is the simple fraction of 0.24? [R.B 16]</li> <li>a) <sup>8</sup>/<sub>3</sub> b) <sup>8</sup>/<sub>33</sub></li> <li>c) <sup>8</sup>/<sub>5</sub> d) 5</li> <li>Which one of the following is a rational number? [B.B 16]</li> </ul>	a) c) 48. WH 5.7 a) c) 49. WH rat a) c) 50. WH a) c) 51. Exj	2 d) 3 ich one is the simple fraction of 8? [C.B15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ at is the value of 0.51? [Ctg.B15] $\frac{23}{45}$ b) $\frac{51}{100}$ $\frac{1}{2}$ d) $\frac{23}{99}$ press 0.13 into simple fraction.
40. 41. 42.	i. Sum is always an irrational numbers – [B.B 16] i. Sum is always an irrational number. ii. Difference is always an irrational number. iii. Product can be either rational or irrational. Which one of the following is correct? a) i and ii b) i and iii c) ii and ii d) i, ii and iii Which one is the simple fraction of $0.24?$ [R.B 16] a) $\frac{8}{3}$ b) $\frac{8}{33}$ c) $\frac{8}{5}$ d) 5 Which one of the following is a rational number? [B.B 16]	a) c) 48. WH 5.7 a) c) 49. WH rat a) c) 50. WH a) c) 51. Exj WH	2 d) 3 ich one is the simple fraction of 8? [C.B 15] $5\frac{78}{90}$ b) $5\frac{78}{9}$ $5\frac{71}{90}$ d) $5\frac{71}{9}$ ich one of the following is a ional number? [C.B 15] $\sqrt{11}$ b) $\frac{\sqrt{6}}{3}$ $\frac{\sqrt{8}}{\sqrt{7}}$ d) $\frac{\sqrt{27}}{\sqrt{48}}$ at is the value of 0.51? [Ctg.B 15] $\frac{23}{45}$ b) $\frac{51}{100}$ $\frac{1}{2}$ d) $\frac{23}{99}$ press 0.13 into simple fraction. ich is correct? [S.B 15] 13 in 4

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	c) $\frac{13}{20}$ d) $\frac{2}{15}$	Creative Questions:	
52.	Which is the Rational number?		
	[Dj.B 15]	<b>1.</b> $\sqrt{5}$ and 4 are two real numbers.	
	a) $\sqrt{13}$ b) $\sqrt{14}$	a) Specify which one is rational and	
	c) $\sqrt{15}$ d) $\sqrt{16}$	which one is irrational.	
53.	Which one is the simple fraction of	b) Find two irrational numbers between $\sqrt{E}$	
	0.66? [Di.B 15]	$\sqrt{5}$ and 4.	
	a) $\frac{20}{11}$ b) $\frac{11}{11}$	c) Prove that, $\sqrt{5}$ is an irrational	
	33 18 $61$ 2	number.	
	c) $\frac{d1}{100}$ d) $\frac{1}{3}$		
54.	If p, q, r are real numbers and p < q	2. In is a natural number then $n = 2x - 1$	
	then [R.B 15]	<b>1</b> , where $x \in \mathbb{N}$ . [DJ.B 16]	
	i. $pr < qr$ , when $r > 0$	a) what is the natural number?	
	ii. $pr < qr$ , when $r < 0$	b) Show that, square of that given	
	iii. $pr < qr$ , when $r \ge 0$	c) Prove that when the square of that	
	Which one of the following is correct?	given number is divided 8 every	
	a) i and ii b) i and iii	time the remind is 1	
	c) if and iff d) i, if and iff		
55.	In real numbers [Ctg.B 15]	3. $\sqrt{5}$ and 4 are two real numbers.	
	1. $\sqrt{49}$ is a Prime number.	a) Which number's real and which one	
	11. $0.03$ is a proper fraction.	is irrational number.	
	iii. $2 + \sqrt{2}$ is a natural number.	b) Find two irrational numbers between	
	Which one of the following is correct?	this two given numbers.	
	a) $1$ and $11$ b) $1$ and $11$	c) Prove that, $\sqrt{5}$ is an irrational	
56	c) II and III d) I, II and III In the real number [S.P. 15]	number.	
50.	i Squara root of a number which is not		
	nerfect square is an irrational	4. $n = 2x - 1$ , where $x \in \mathbb{N}$ .	
	number	a) Divide 9.5 by 2.863.	
	ii. All positive numbers including zero	b) Show that, if $n^2$ divided by 8 (eight)	
	are called non-negative numbers.	invery case the remainder will	
	iii. Zero in a natural number.	remain 1.	
	Which one of the following is correct?	c) Prove that, $\sqrt{n}$ is an irrational	
	a) i and ii b) i and iii	number, where $x = 6$ .	
	c) ii and iii d) i, ii and iii		
57.	What is the simple fraction from of		
	0.369? [Ctg.B 15]		
	a) $\frac{41}{100}$ b) $\frac{41}{101}$		
	(c) $\frac{41}{41}$ (d) $\frac{41}{41}$		
50			
58.	392 329		
	a) $\frac{312}{90}$ b) $\frac{312}{100}$		
	c) $\frac{478}{20}$ d) $\frac{478}{100}$		

## ( Cosmo School

## **Basic Information:**

- During 750 690 B.C. Greek mathematicians gave concepts about infinite numbers.
- Do you know, the fraction method was not available until 17<sup>th</sup> century in Europe?
- Fractions were used in Egypt at 1000 B.C.
- They used to calculate with figures. This method was known as hieroglyphs.
- It is assumed that infinite numbers were first used in before 600 B.C. at Shulba Sutras



- The rule of chords, which is a Beda related book.
- At 500 B.C. Pythagoras felt the necessity to use infinite numbers for  $\sqrt{2}$ .
- Indian and Chinese mathematicians in the middle age and later on, the Arabian mathematicians started using Zero, Negative, Fraction and Real Numbers.
- Arabian mathematicians first adopted infinite numbers as algebraic component.
- Infinite numbers were recognized due to solution of modern decimal system and enforced that is no difference between finite and infinite numbers.

- In the 17<sup>th</sup> century Descante used the word "Real" to differentiate with imaginary numbers.
- More works were done in the 18<sup>th</sup> and 19<sup>th</sup> century π and Θ (transcendental) numbers were proved.
- In 1871 Georg Cantor gave a solid definition of real numbers.
- German mathematician Richard
   Dedekind (1831 1916) redefined
   irrational numbers by utilizing the
   method Dedekind cut.
- He has great contribution in different sectors of mathematics, especially in Abstract algebra, Algebraic Number Theory and in the fundamental theories of Real Number.





Pythagoras, Georg Cantor and Richard Dedekind