**Maths Notebook**

Unit 1: Number System

*KC:*

*RC:*

*GC:*

*SOI:*

Natural numbers are positive numbers and are not fractional or have decimals

Integers are both positive and negative and 0 and they are neither decimal nor fractional

Rational numbers are numbers which have a decimal point and have a definite end and if it dooesnt have an end then they will follow a pattern. For example 3.333333…

Irrational numbers is the opposite

Rational numbers in fractions are denotated as a/b where b is not = 0. So proper fractions, improper, mixed and even whole numbers are rational numbers

To figure out if a fraction is a recurring decimal or a definite decimal:

If the denominator of the fraction has a factor of 2 or 5 and nothing else except of course 1 and the number of the denominator then it will be a definite decimal but if it the denominator has another factor perhaps 3 or something, it will be a recurring fraction.

3/10 = definite

2/3 = infinite

C = finite

D = infinite

E = infinite

F = finite

G = infinite

H = infinite

**Maths Homework (10/7/20)**

Exersise 3E

Q4: a) 9/10 = 0.9 Y

B) 17/20 = 0.85 Y

c) 2/5 = 0.4 Y

d)3/25 = 0.12 Y

e ) 31/50 = 0.62 Y

f)3/8 = 0.375 Y

a square root expression is known as radical

An irrational radical is known to be a surd

While simplifying a radical then if there is a square in the prime factorization then the square number goes outside the sqaure and the other number goes in the square root.

Square root of 81

3 \* 3 \* 3 \* 3

The square of an irrational number is always rational number

Ratios show the relation between 2 same types of quantities

The statement ‘is to’ is common in ratio

1 : ¼ = 1 \* 4 : ¼ \* 4

= 4: 1

0.4 : 1.4

=2 : 7

1 : 3/8 = 24:1

9/2 : 9

9/2 \* 2 : 9 \* 2

9 : 18

1 : 2

1 ) 1.2 : 1.8

= 12/10 : 18/ 10

= 12 : 18

= 2 : 3

2) 3600 : 900

= 4 : 1

3 ) 45 : 240

= 3 : 16

Percentages:

Examples: sale, marks, interest, battery, taxes etc.

Conversions:

0.02 = 2%

0.4 = 40%

5.005 = 500.5%

55% = 55/100 = 11/20

210 % = 2 1/10

37 ½ % = 3/8 a