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Teaching Learning Material

Class - 7th

Subject - Mathematics

Section - All

Subject teacher - Bandana Kumari

Rational Numbers

The word 'rational' arises from the term ratio.

"A rational number is defined as a number expressed in the form of $\frac{p}{q}$, where p and q are integers and $q \neq 0$ ".

Examples of rational numbers are $-\frac{5}{7}$, $\frac{4}{7}$, $\frac{-3}{2}$ etc.

NOTE:- All fractions are rational numbers.

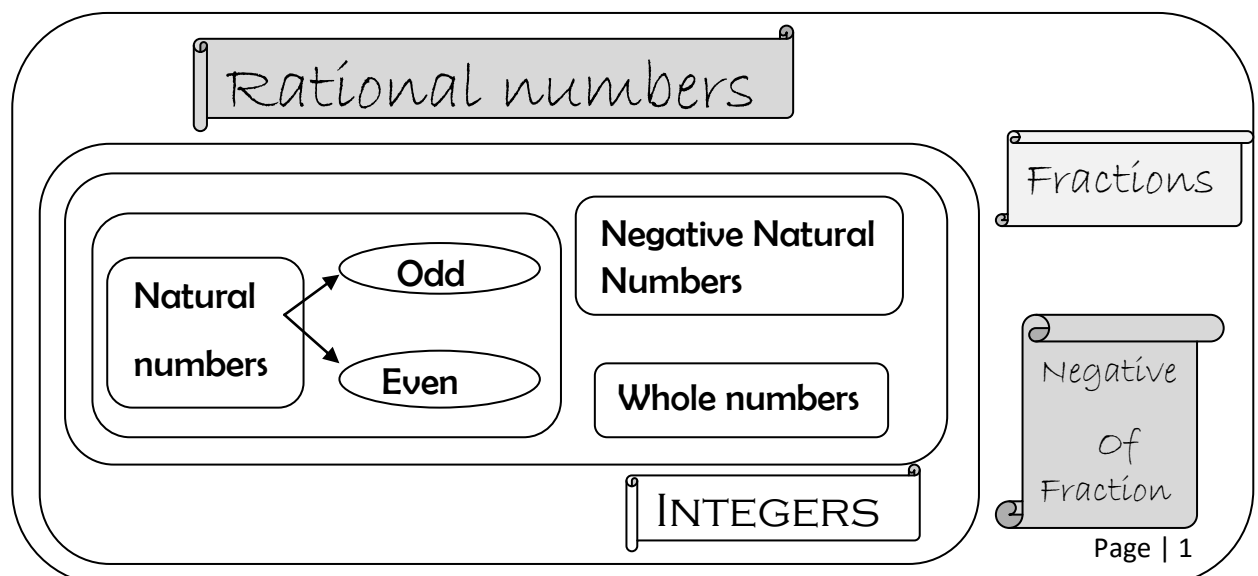
Q. what numbers are included in rational numbers?

Or

What numbers can we say that it is a rational number?

Ans. Let us know about numbers included in rational numbers by a clear diagram.

Let's start :-



Doubts asked to me by someone from you

Q.5 (from assignment dated - 30/05/20xx)

H.W.
30/05/20xx

(5) Given.
First number be 54.
let another number be x

A/q $x + 8 = 54$
 $\Rightarrow x = 54 - 8$
 $\Rightarrow x = 46$

Hence another number be 46

Q.1(e) (from assignment dated - 28/05/20xx)

let the score of Dinesh = x
the score of Rajat = $3x$
(thrice = three times)

A/q $x + 3x = 300 - 8$
 $\Rightarrow 4x = 292$
 $\Rightarrow x = 292 \div 4$
 $\Rightarrow x = 73$

[1 century = 100
3 century = 300]

[They fell 8 runs less from 3 century]

Hence, Dinesh score $x = 73$, Rajat score $3x = 3 \times 73 = 219$

Q.1 (d and i) {from assignment dated - 26/05/20xx}

26/05/20xx

(d) Let required number be x

A.9 $2x - 7 = 27$ [Twice = two times]

$\Rightarrow 2x = 27 + 7$ [taken away from = subtracted from]

$\Rightarrow 2x = 34$

$\Rightarrow x = 34 \div 2$

$\Rightarrow \boxed{x = 17}$

Hence required number be 17.

(I) Let required number be x

A.9 $4x = x + 33$

$\Rightarrow 4x - x = 33$

$\Rightarrow 3x = 33$

$\Rightarrow x = 33 \div 3$

$\Rightarrow \boxed{x = 11}$

Hence, required number be 11
