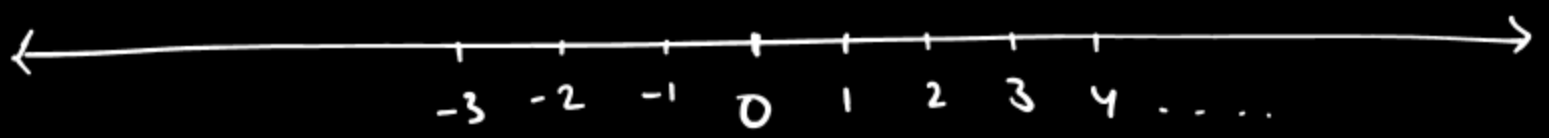
Negative Numbers

Grade 4(+)

27/Nov.

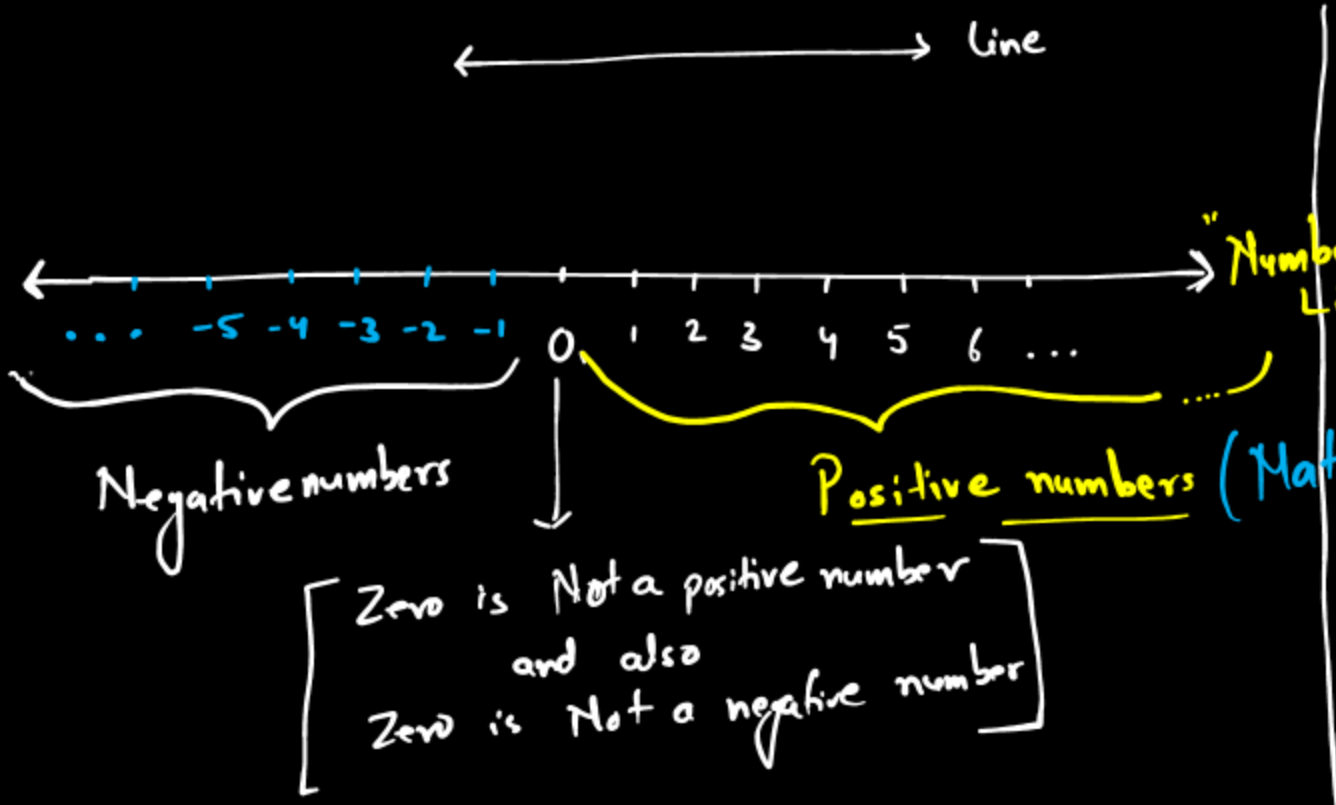
Negative numbers

$-1, -2, -3, -4, -5, \ldots, -\infty$



For negative numbers: or for number with negative sign. ⇒ Bigger the number, smaller is its value. and vice versa

eg. . -3 is smaller than -1
. -100 is smaller than -3



[Zero is Not a positive number
and also
Zero is Not a negative number]

Natural numbers : They are counting number.

Natural numbers $\Rightarrow$ $[1, 2, 3, 4, 5, \ldots, \infty]$

Whole number: $[0, 1, 2, 3, 4, 5, \ldots \infty]$

Integer : (whole number + all negative number) = $[-\infty, \ldots, -3, -2, -1, 0, 1, 2, 3, \ldots \infty]$

$$\frac{\left(13 \times \frac{15}{7}\right)}{5} = \frac{13 \times 15^{3}}{5 \times 7} = \frac{13 \times 3}{1 \times 7} = \frac{39}{7}$$

$$\frac{12}{36} = \frac{3 \times 4}{9 \times 4} = \frac{9}{27} = \frac{1}{3}$$

$$\frac{5}{9} \times \frac{27}{4} = \frac{5 \times 27^{3}}{9 \times 4} = \frac{15}{4}$$

$-\underline{7} + 5 = -\underline{2}$

$+\underline{9} - \underline{13} = -4$

$8\frac{5}{9} \times 5\frac{2}{3} =$

$\frac{77}{9} \times \frac{17}{3} = \frac{77 \times 17}{9 \times 3} = \frac{1309}{27}.$

$=$

$$\begin{array}{r} 77 \\ \times\ 17 \\ \hline \end{array}$$

77×17

$\underline{77} \times (\underline{10} + 7) = 770 + 539$

$= \underline{1309}$

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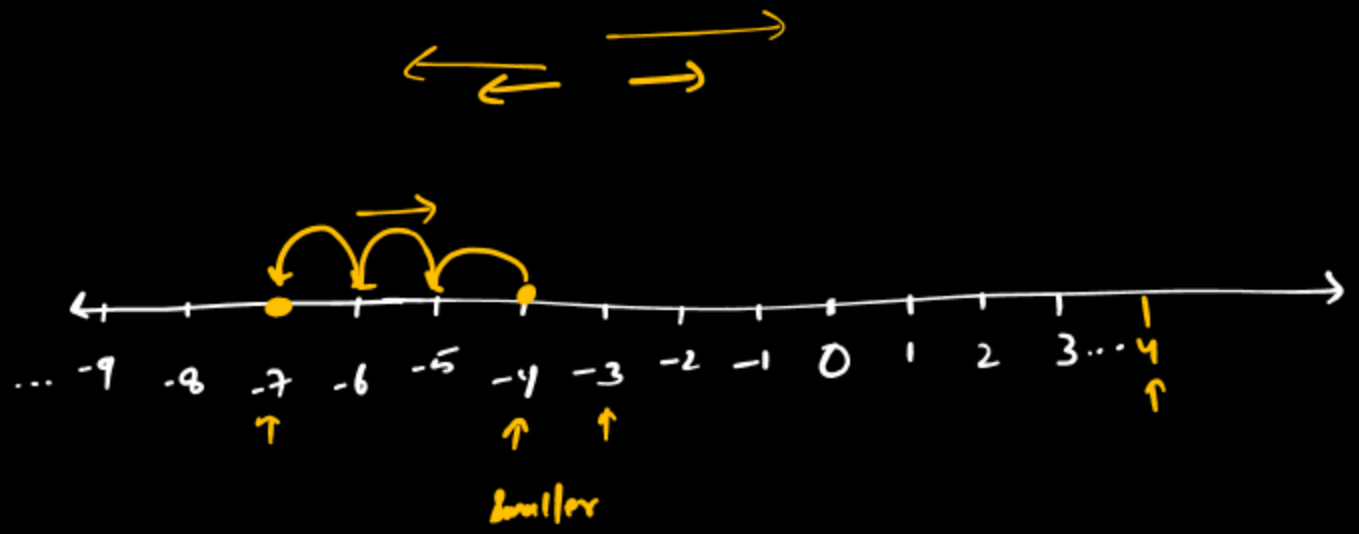
$-4 = 3$ =



Addition and Subtraction of negative number.

- −ve / −ve (when both the nos. are negative) ⇒ Add the nos. and put negative sign.

  eg: −1 −2 = −3
  −4 −9 = −13
  −19 −1 = −20

- −ve / +ve
  +ve / −ve
  } ⇒ We subtract and put the sign of the bigger number.

  eg: (i) −7 +9 = +2 or 2
  (ii) −6 + 2 = −4
  (iii) 12 − 19 = −7

2 + 3 = 5

Negative (−ve)

Positive (+ve)

(−) ⇒ minus

(+) ⇒ plus

Ex. Q.

$\Rightarrow +13 + 19 = 32$

$\Rightarrow 20 - 25 = -5$

$\Rightarrow -46 - 44 = -90$

$\Rightarrow -43 + 64 = +21$ or 21

$\Rightarrow -13 + 9 = -4$

Multiplication & Division of negative numbers

- +ve / +ve
  -ve / -ve
  $\Rightarrow$ Multiply (or Divide) and use positive (+ve) sign only.

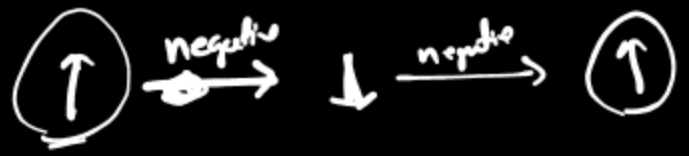
Eg: (i) $3 \times 4 = 12$

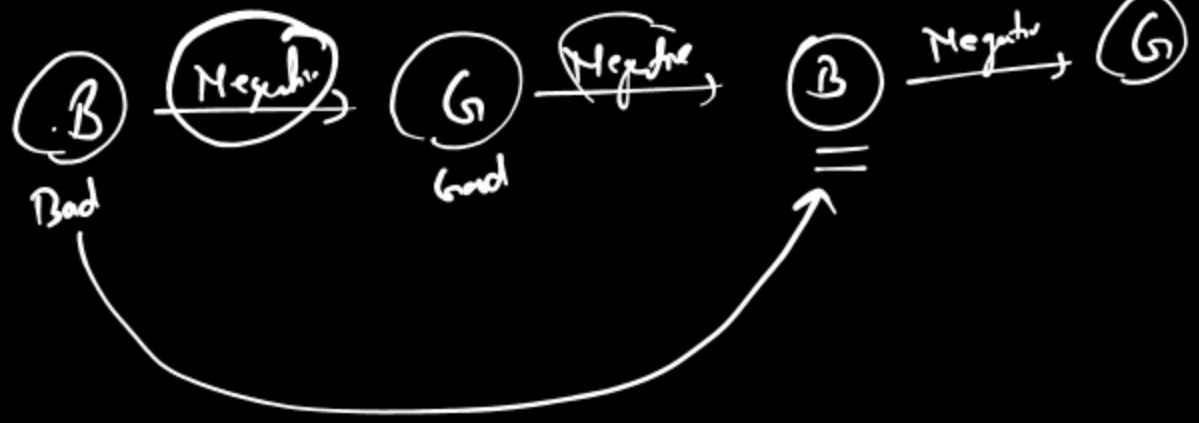
$(-3) \times (-4) = 12$

$(-3) \times (-4) \times (-2) =$

(ii) $24 \div 3 = 8$

(iii) $(-24) \div (-3) = 8$

$\Rightarrow$ 



the nos. &

- +ve / -ve
  -ve / +ve
  $\Rightarrow$ Multiply (or divide) & use negative sign (−).

eg. (i) $3 \times (-4) = -12$

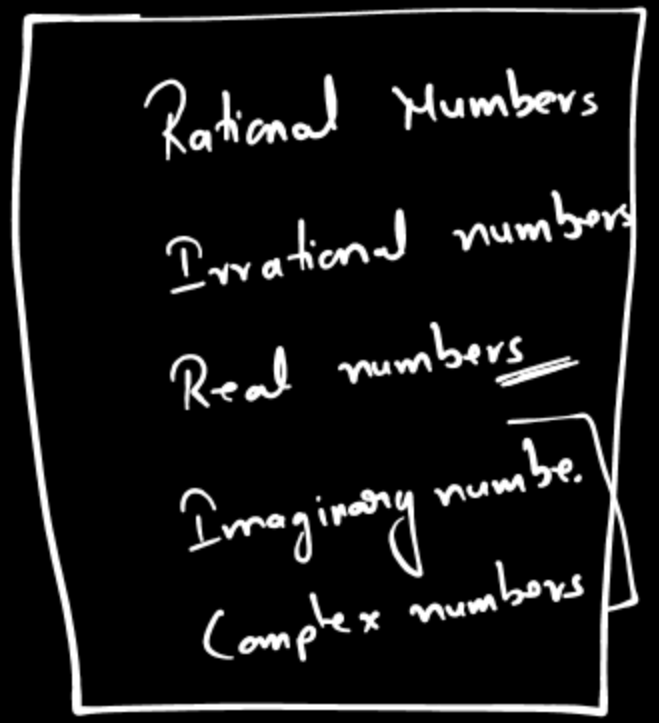
(ii) $(-10) \times 12 = -120$

(iii) $(-24) \div 3 = -8$

(iv) $36 \div (-4) = -9$

₹ (−20)

Q.


Rational Numbers
Irrational numbers
Real numbers
Imaginary numbe.
Complex numbers

Q. (i) $12 + 2 - 13$

$\Rightarrow 14 - 13$

$\Rightarrow 1$

Rule: DMAS $\Rightarrow$ Division, Multiplication, Addition, Substraction

eg(i) $12 + 2 \times 4 - 3$

$\Rightarrow 12 + 8 - 3$

$\Rightarrow 20 - 3$

$\Rightarrow 17$