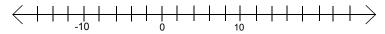


OPERATIONS ON REAL NUMBERS

① EXAMPLE:

Find the sum, difference, product and quotient of these two integers: a = -8 and b = -2 Place all values on this number line, a,b,S,D,P,Q.



Sum: a+b

Difference: a-b

Product: a×b or a*b or ab

Quotient: $a \div b$ or a/b or $\frac{a}{b}$

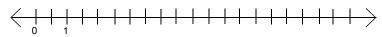
Distance between a and b on the number line.

② EXAMPLE:

Find the sum, difference, product and quotient of these two mixed numbers : $a = 6\frac{1}{3}$

and b = 2 $\frac{5}{6}$

Place all values on this number line, a,b,S,D,P,Q.



Sum:

Difference:

Product:

Quotient:

Distance between a and b on the number line.

EXPONENT NOTATION

aⁿ means

3 Examples:

(-5)³

but -3⁴

 $\left(\frac{2}{3}\right)^2$

ORDER OF OPERATIONS

P E MD AS

4 Examples:

$$8 \cdot 3^2 - 4(12+3)$$

$$2(6) + 12 \div 3(2) - 7$$

$$3 + 2 * 5 - 2^3$$