

## 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: $\mathrm{a} \times \mathrm{b}$ or $\mathrm{a} * \mathrm{~b}$ or ab

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

## EXPONENT NOTATION

## $a^{n}$ means

(3) Examples:
$(-5)^{3}$
but $\quad-3^{4}$
$\left(\frac{2}{3}\right)^{2}$

# ORDER OF OPERATIONS <br> PEMD AS 

(4) Examples:
$8 \cdot 3^{2}-4(12+3)$
$2(6)+12 \div 3(2)-7$
$3+2 * 5-2^{3}$

