

Lesson 3: Integer & Decimal operation

$$++ \rightarrow +$$

$$-- \rightarrow +$$

$$+- \rightarrow -$$

$$-+ \rightarrow -$$

- 1) Adding And Subtracting
Ex. Evaluate

$$a) 6 + (-10) = 6 - 10 \\ = -4$$

$$b) 5 + (-3) + 4 + (-10) - (20) = -4$$

- 2) Multiplying And Dividing
Ex. Evaluate

$$a) -4 \times 9 = -36$$

$$b) (-4)(2)(-1) = -8(-1) \\ = 8$$

$$c) -66 \div (-2) \div (-1) = 33 \div (-1) \\ = -33$$

$$d) \frac{-48}{3} = -16$$

- 3) Powers

base a^n exponent
power $= a \cdot a \cdot a \cdot a$
n

"a to the power of n"

Lesson 3 - Integers & Rational Operations

Ex. Evaluate

a) $2^3 = 2 \times 2 \times 2 = 8$

b) $3^{10} = 59049$

4) Roots And Radicals

*if $3^2 = 9$ then $\sqrt{9} = 3$

*if $5^3 = 125$ then $\sqrt[3]{125} = 5$

*if $2^6 = 64$ then $\sqrt[6]{64} = 2$

↑ radicals

Ex. Evaluate \sqrt{x}

a) $\sqrt{225} = 15$

b) $\sqrt[3]{27} = 3$

c) $\sqrt[6]{64} = 2$