Ch 7 Quiz

Square Roots

What are they?

$$\overset{5}{\sqrt{25}} \qquad \overset{6}{\sqrt{36}} \qquad \overset{12}{\sqrt{144}} \qquad \overset{7}{\sqrt{49}}$$

How do we approximate square roots?

① Find the two perfect roots the sq. root lies between.

$$\sqrt{4} \;) \quad \sqrt{7} \quad \sqrt{9} \;) \qquad \text{perfect roots}$$

② Find the fractional distance of the sq. root

$$\overset{2}{\sqrt{4}} \xleftarrow{3} \sqrt{7} \quad \overset{3}{\sqrt{9}}$$

Part distance: 3

Total distance: ~~5~~ 5

Since it is at least the value of the first perfect root, take that value + the fractional distance.

$$2\frac{3}{5} ≈ 2.33$$ (crossed out)

$$2\frac{3}{5} ≈ 2.6$$

Cube Roots

What are they?