

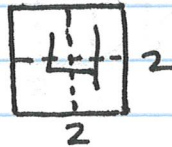
# SHIP SHAPE NOTES

## PERFECT SQUARES

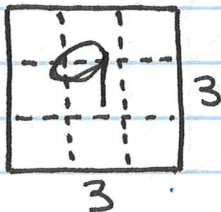
$$1^2 = 1$$



$$2^2 = 4$$



$$3^2 = 9$$



$$4^2 = 16$$

$$5^2 = 25$$

$$6^2 = 36$$

$$7^2 = 49$$

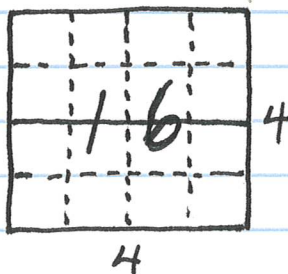
$$8^2 = 64$$

$$9^2 = 81$$

$$10^2 = 100$$

$$11^2 = 121$$

$$12^2 = 144$$



## SQUARE ROOTS

$$\sqrt{1} = 1$$

$$\sqrt{4} = 2$$

$$\sqrt{9} = 3$$

$$\sqrt{16} = 4$$

$$\sqrt{25} = 5$$

$$\sqrt{36} = 6$$

$$\sqrt{49} = 7$$

$$\sqrt{64} = 8$$

$$\sqrt{81} = 9$$

$$\sqrt{100} = 10$$

$$\sqrt{121} = 11$$

$$\sqrt{144} = 12$$

$$0.8^2 = (0.8)(0.8) = 0.64$$

$$\sqrt{0.64} = 0.8$$

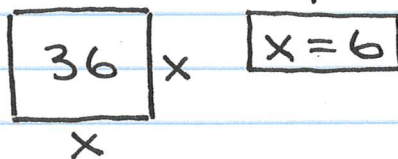
$$\left(\frac{2}{3}\right)^2 = \left(\frac{2}{3}\right)\left(\frac{2}{3}\right) = \frac{4}{9}$$

$$\sqrt{\frac{4}{9}} = \frac{2}{3}$$

Ex:) SOLVE FOR X.

$$\sqrt{x^2} = \pm \sqrt{36}$$

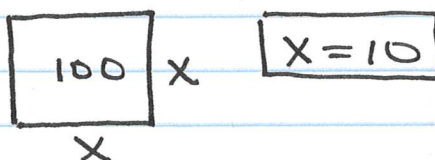
$$x = \pm 6$$



Ex:)

$$\sqrt{x^2} = \pm \sqrt{100}$$

$$x = \pm 10$$



## PERFECT CUBES

$$1^3 = 1$$

$$2^3 = 8$$

$$3^3 = 27$$

$$4^3 = 64$$

$$5^3 = 125$$

$$6^3 = 216$$

$$7^3 = 343$$

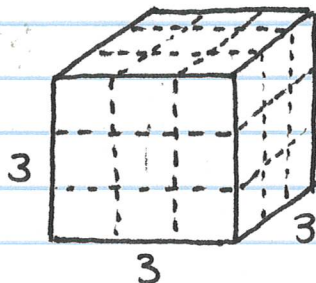
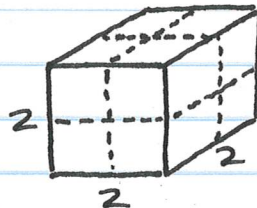
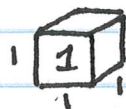
$$8^3 = 512$$

$$9^3 = 729$$

$$10^3 = 1000$$

$$11^3 = 1331$$

$$12^3 = 1728$$



## CUBE

## ROOTS

$$\sqrt[3]{1} = 1$$

$$\sqrt[3]{8} = 2$$

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

$$\sqrt[3]{64} = 4$$

$$\sqrt[3]{125} = 5$$

$$\sqrt[3]{216} = 6$$

$$\sqrt[3]{343} = 7$$

$$\sqrt[3]{512} = 8$$

$$\sqrt[3]{729} = 9$$

$$\sqrt[3]{1000} = 10$$

$$\sqrt[3]{1331} = 11$$

$$\sqrt[3]{1728} = 12$$