AREA,VOLUME,DENSITY ,SPEED,ACCELERATION AND VELOCITY

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DEFINITIONS

- The Area of a shape is the amount of surface enclosed within its boundary lines

- cm2/m2

- The volume of an object is the amount of space it takes up

- cm3/m3

- The velocity of an object is its speed in a certain direction

- m/s, km/h

MEASURING AREA
CM/M2

- Area of rectangle = length x width

- Area of a triangle= 1/2 the base x perpendicular height

- Area of circle = πr2

MEASURING VOLUME

- Cm3/m3

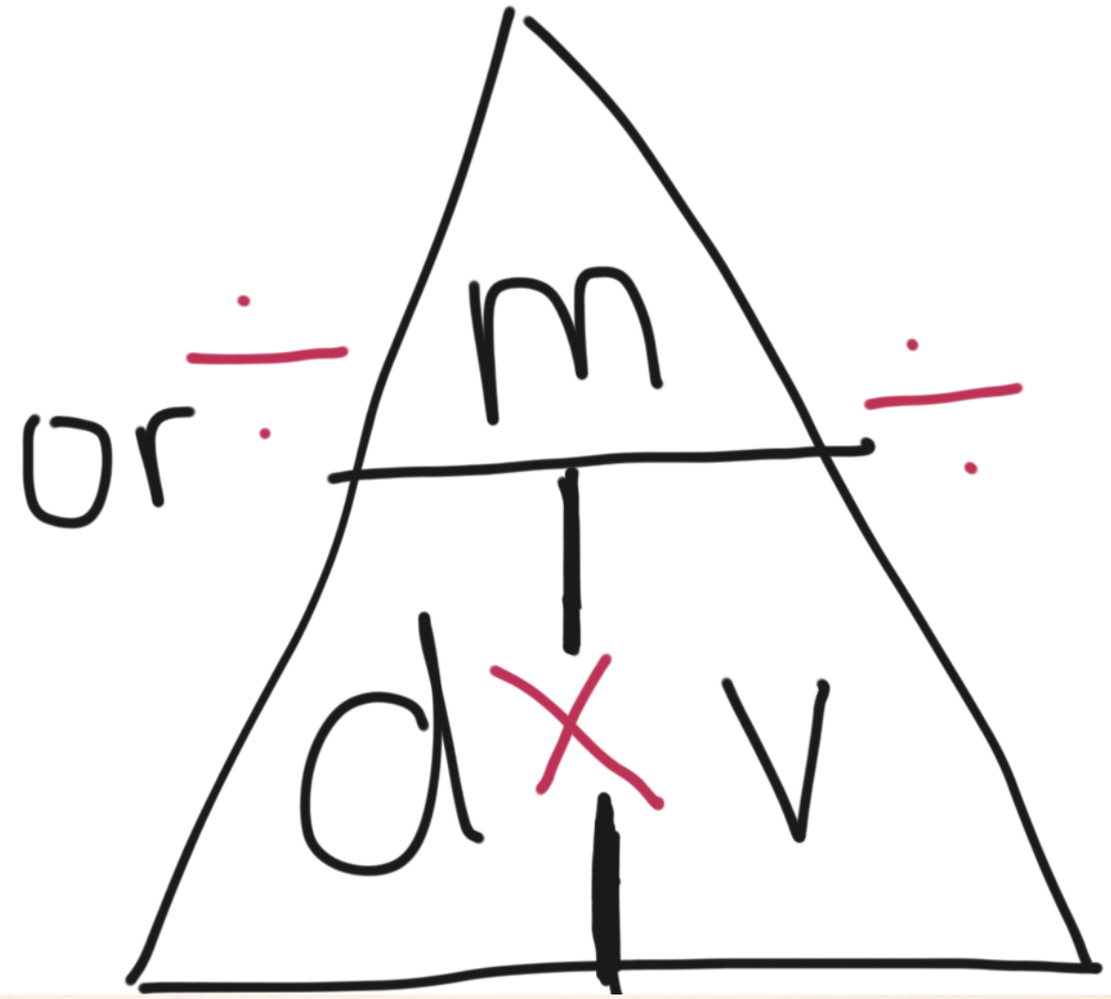
- Volume is how much space an object takes up

- Volume of rectangular box= length x width x height

- To measure an irregular object use a graduated cylinder

DENSITY

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$



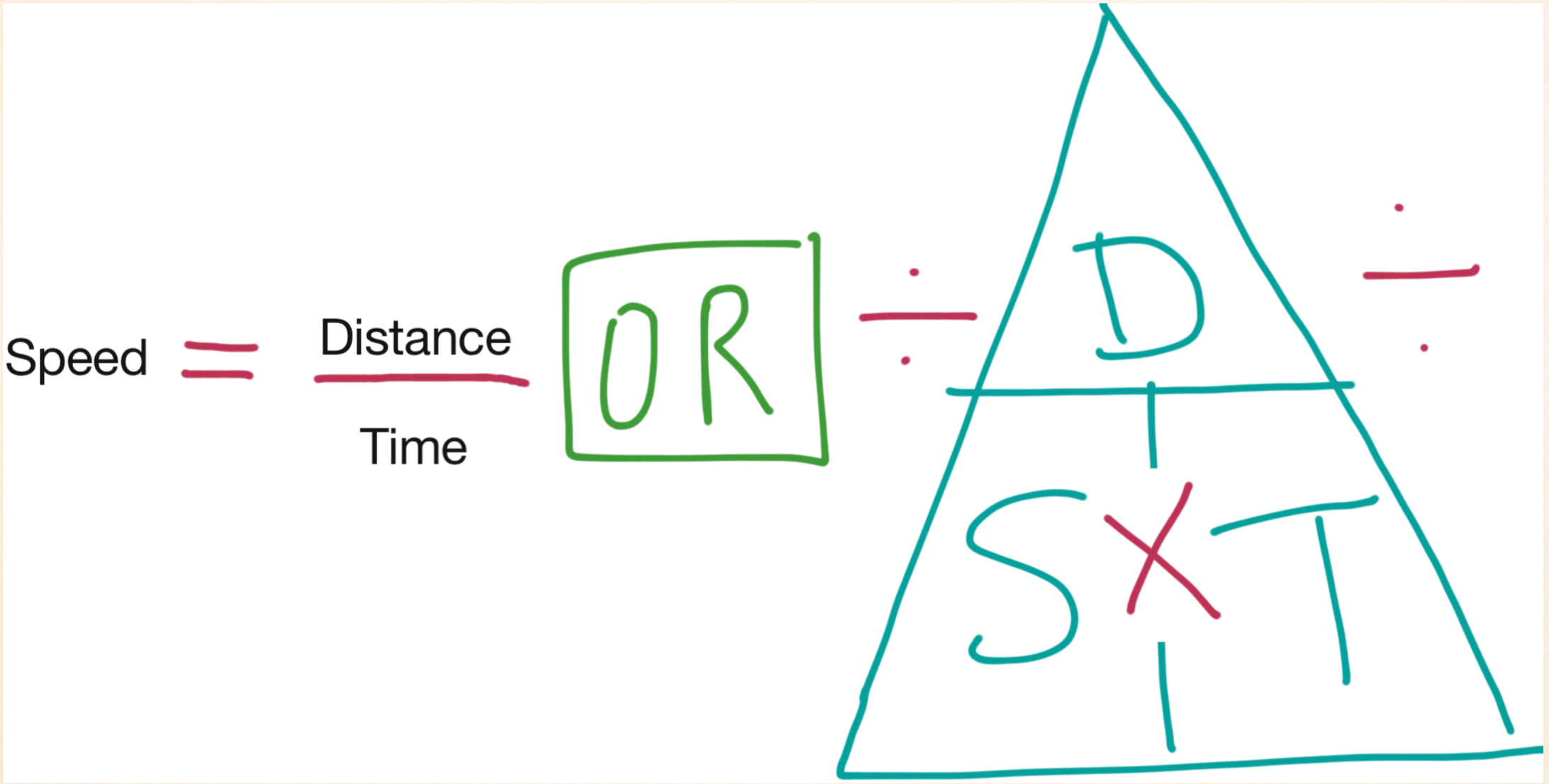
- Unit = g/cm3

FLOATATION

- A solid will FLOAT in a liquid if it is LESS DENSE

- A solid will SINK in a liquid if it is MORE DENSE

SPEED



- Units = m/s

ACCELERATION

$$\text{Acceleration} = \frac{\text{Final speed- starting speed}}{\text{Time taken for the change in speed.}}$$

m/s = units