

1. X stands for distance

a) Y

b) time

~~c)~~ distance

d) speed

e) acceleration

2. Solve  $V = \frac{x}{t}$  for X

Note:  $\cdot$  means times

a)  $X = \frac{V}{t}$

b)  $X = V \cdot \widehat{t}$ 

$$t \cdot v = \frac{x}{t} \cdot t$$

c)  $X = V + t$

d)  $X = V - t$

$$V_t = x$$

3. Solve  $V = \frac{x}{t}$  for  $t$

a)  $t = \frac{x}{v}$

b)  $t = V \cdot X$ 

$$\therefore V = \frac{x}{t} \text{ m/s}$$

c)  $t = X + V$

d)  $t = X - V$

$$t = \frac{x}{v}$$

e)  $t = \frac{V}{X}$

4. A ball is dropped. Since it was dropped, it has an initial velocity of 0. After a time of 5 seconds, it has a final velocity of  $-49 \text{ m/s}$ . What was its average velocity during those 5 seconds?

a)  $-49 \text{ m/s}$

b)  $-0 \text{ m/s}$ 


$\dot{O} \rightarrow V=0$

c)  $+33.3 \text{ m/s}$

d)  $-24.5 \text{ m/s}$

$$V_{avg} = \frac{0 + (-49)}{2} = \frac{-49}{2}$$

$$= -24.5 \text{ m/s}$$

1.   $\longleftrightarrow -49 \text{ m/s}$

5. When a ball is dropped the velocity is \_\_\_\_\_

a)  $33 \text{ m/s}$

b) constant

d) changing

e)  $22 \text{ m/s}$