$$h = 10t - 10t - t^2$$
= 10(s) - 10(s) - (5²)

$$= 50 - 50 - 25$$
 $h = -25$

$$C = 98 \text{ and } 9 = 32$$

$$T = 2 \times 3\frac{1}{7} \int_{32}^{98}$$

$$= 2 \times \frac{21}{7} \int_{3.065}$$

ex. 6. The aver of asquare is given by $A = S^{\frac{3}{2}}$ Determine S when A = 64 \Rightarrow $A = S^2$ 64 = S2 164=152 8 = S Note 164 = + 4 but we take the positive 4 (+4) coz we dont have a negative length (sid) ACTIVITY 1. V= u+at find the value of V when U=6 a=3 and t=10 2. If R = 100 T and P = 50, R = 10, T = 2 Betermine I 3. Work out S when U= 50 t= 15 a= 16 given that S = Ut + Lat 4 Given the formula v2 = U2 + 2as Calculate the value of 5 if a = 8 U=14 5. 1 + 1 = 1 . Find r y v=10 and f=8

6. Given d = 5 1/2 (ook for d is h = 72.

Change of Subject of formulae
Solve the equation for the letter
which is to become the Subject (make
that letter the Subject or Express that
letter in terms of the other letters in
question)

ex. 1 Male m the subject of the

J=MX+C

Take C to the LHS of the equation

y-C = MX

Divide both Sides by oc

y-C = Moc

x oc

y-c = m

m = y - e

or y= mx+ c

-mx = c - y

-mx=c - y

M = C - 9 M = C - 9

 $m = -\frac{c}{2c} + \frac{y}{2c}$

or m = -c+y

or M = 3 - c

ex.2. Make p the subject of the

forma.

I = PRI

100

Multiply both sides by lov or

cross multiply

100XI = PRI × 100

100I = PRI

Nivide both sides by RI

100I = PRI

RT

100I = PRI

RT

100I = PRI

RT

ex. 3. Express of in terms of a and be given that a=b(1-x)

a=b(1-x)

clear brackets

Rearrange to give terms in x on one Side of the equation bx = b -a

divide both sides by b

 $\frac{\cdot \cdot \times = b - a}{b}$

ex. 4 make y the Subject of 3y-6x=Py

3y-6x=Py

Collect like terms

factorise y (common gartar) y(3-p) = 6x

Divide both Sides by
$$3-P$$

$$y(3-P) = 6x$$

$$3-P \qquad 3-P$$

y = 60c 3-p 80

ex. 5 Express oc in terms of a, and b the equation from

> b= 2xa 3x - a

multiply both sided by 3x-a or cross mustiply

b (3x-a) = 2xa.

Remove brackets

3bx - ab = 200 a

3 boc - 2 gc a = ab

Jactorise oc (common factor) oc(36-29) = ab

divide both Sider by 36-29 oc (3b - 2a) = ab 3b-29 3b-29

> oc = alb 36-29

ACTIVITY

1. Make the letter in the brackets Shopect

(a) C = 2Tir (r) (d) a + b = c

(b) 2b+c=13 (b)

(c) $C = \frac{5}{9}(F - 32)(F)$ (e) y = m+K (K)