

Ch = 15

Time and calendar

Points to remember:

1) 1 day = 24 hours

2) 1 hours = 60 minutes

3) 1 min = 60 seconds

4) 1 hour = 60 minutes =  $60 \times 60 = 3600$  seconds



1) Convert into hours

a) 8 days

= 1 days = 24 hrs

$\therefore$  8 days =  $24 \times 8$

= 192 hrs

b) 5 days 10 hours

1 day = 24 hours

5 days =  $24 \times 5$

= 120 hrs

$\therefore$  5 days 10 hrs = 120 hrs + 10 hrs = 130 hrs

b) c) d)  $\rightarrow$  5 days 4 hrs :

a) 1 day = 24 hrs

5 days =  $24 \times 5$  hrs

b) d) = ~~120~~ hrs

c) 10 days 20 hrs

= 1 day = 24 hrs

10 days =  $24 \times 10$  ~~hrs~~

= 240

$\therefore$  10 days 20 hrs = 240 hrs + 20 hrs = 260 hrs

d) 6 days 10 hrs

1 day = 24 hrs

6 days =  $24 \times 6$  ~~hrs~~

= 144

$\therefore$  6 days 10 hrs = 144 hrs + 10 hrs = 154 hrs

ex: 2 of convert into minutes

12 hrs 30 min

$$1 \text{ hrs} = 60 \text{ min}$$

$$12 \text{ hrs} = 60 \times 12 \text{ min} \\ = 720$$

$$\therefore 12 \text{ hrs } 30 \text{ min} = 720 \text{ min}$$

$$+ 30 = 750 \text{ min}$$

3) Convert into minutes

a) 3 hrs =

$$1 \text{ hrs} = 60 \text{ min}$$

$$\therefore 3 \text{ hrs} = 60 \times 3$$

$$= 180 \text{ min}$$

~~11/12~~

b) 2 hours 6 minutes

$$1 \text{ hrs} = 60 \text{ min}$$

$$\therefore 2 \text{ hrs} = 60 \times 2$$

$$= 120$$

$$\therefore 2 \text{ hrs } 6 \text{ min} = 120 \text{ min} + 6 = 126 \text{ min}$$

$$c) \quad 8 \text{ hrs } 40 \text{ min}$$

$$1 \text{ hrs} = 60 \text{ min}$$

$$8 \text{ hrs} = 60 \times 8$$

$$= 480 \text{ min}$$

$$\therefore \text{8 hrs } 40 \text{ min} = 480 \text{ min} + 40 \text{ min}$$

$$= 520 \text{ min}$$

$$d) \quad 15 \text{ hours } 30 \text{ min}$$

$$1 \text{ hrs} = 60 \text{ min}$$

$$15 \text{ hrs} = 60 \times 15$$

$$= 900 \text{ min}$$

$$\therefore 15 \text{ hrs } 30 \text{ min} = 900^{\text{min}} + 30 \text{ min}$$

$$= 930 \text{ min}$$



3) Convert into seconds

a) 6 minutes

$$1 \text{ min} = 60 \text{ sec}$$

$$\therefore 6 \text{ min} = 60 \times 6$$

$$= 360 \text{ min}$$

~~7/6/6/~~

b) 2 minutes 4 seconds

$$1 \text{ min} = 60 \text{ sec}$$

$$\text{Ans } 2 \text{ min} = 60 \times 2$$

$$= 120$$

$$\therefore 2 \text{ min } 4 \text{ sec} = 120 \text{ min}^{\text{sec}} + 4 \text{ sec}$$

$$= 124 \text{ sec}$$

c) 40 minutes 3 seconds

$$1 \text{ min} = 60 \text{ sec}$$

$$\text{Ans } 40 \text{ min} = 60 \times 40$$

$$= 240$$

$$\therefore 40 \text{ min } 3 \text{ sec} = 240 + 3 = 243 \text{ min}$$

d) 1 hr 2 min 30 sec

$$1 \text{ hr} = 60 \text{ min}$$

$$1 \text{ hr } 2 \text{ min} = 60 + 2 \text{ min}$$

$$= 62 \text{ min}$$

1 hr 2 min 30 sec

$$= 62 \text{ min } 30 \text{ sec}$$

$$1 \text{ min} = 60 \text{ sec}$$

$$62 \text{ min} = 60 \times 62 \text{ sec}$$

$$= 372 \text{ sec}$$

$$\therefore 1 \text{ hr } 2 \text{ min } 30 \text{ sec} = 372 \text{ sec} + 30 \text{ sec}$$

$$= 402 \text{ sec.}$$