

The difference between minutes and hours are

$$=6-\frac{1}{2}=5\frac{10}{2}=\frac{110}{2}$$

- 1. In a clock of 12 hours the minutes hand and hours hand are coincide into each other. The angle between them is 0° is in 11 times.
- 2. In a clock of 12 hours the minutes hand and hours hand are in opposite direction i.e., the angle between them is 180' is in 11 times
- 3. In a clock of 12 hours the minutes hand and hours hand are pendicular to each other that is the angle between them is 90° is in 22 times.

4.

1.

 $\langle 7 \rangle$ 

4.)

$$\Theta = \frac{11}{2} M - 30 h$$
, if  $\frac{11}{2} M > 30 h$ 

D = the angle between the minute hand and hour hank

m = minutes

h = B hours

$$\theta = 30h - \frac{11}{2}m$$
, if  $\frac{11}{2}m < 30h$ 

Ex:- what is the angle between minutes and hours hard of a clock at 4 hr 30m.

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A. 
$$\theta = \frac{11}{2}m - 30h$$
  
=  $\frac{11}{2}(30) - 30(4)$ 

$$= 165 - 120$$
  
 $= 45^{\circ}$ 

Ext- what is the angle between the two hands of a clock

when the clock shows 3 hours 25 minutes

A. 
$$A = \frac{11}{2} M - 30h$$
  
 $A = \frac{11}{2} (25) - 30(3)$   
 $A = 47 \frac{10}{2}$ 

Ex:-) At what tyime between 6 and  $7^{\circ}$  are the hands of a clock together.

A. 
$$\theta = \frac{11}{2}m - 30h$$

 $\epsilon$  Both hands together (coincides) means  $\theta = 0^{\circ}$ 

$$0 = \frac{11}{2}m - 30(6)$$

$$m = 32 \frac{8}{11}$$

... @ 6 hours 32 8 min both hands are coincide.

Exi-A what time between 3 and 4°C are the hards of a clock in the opposite direction

A Opposite direction, 0 = 180°

$$\theta = \frac{11}{2} m - 30 h$$

$$180 = \frac{11}{2} m - 30(3)$$

$$M = 49 \frac{1}{11}$$

1@ 3 hours 49 11 min.