CLOCK

Clock
Aptitude
Question
Answers

BY-RAHUL AGRAHARI

CONCEPT

Minute Hand:

60 Min = 360º

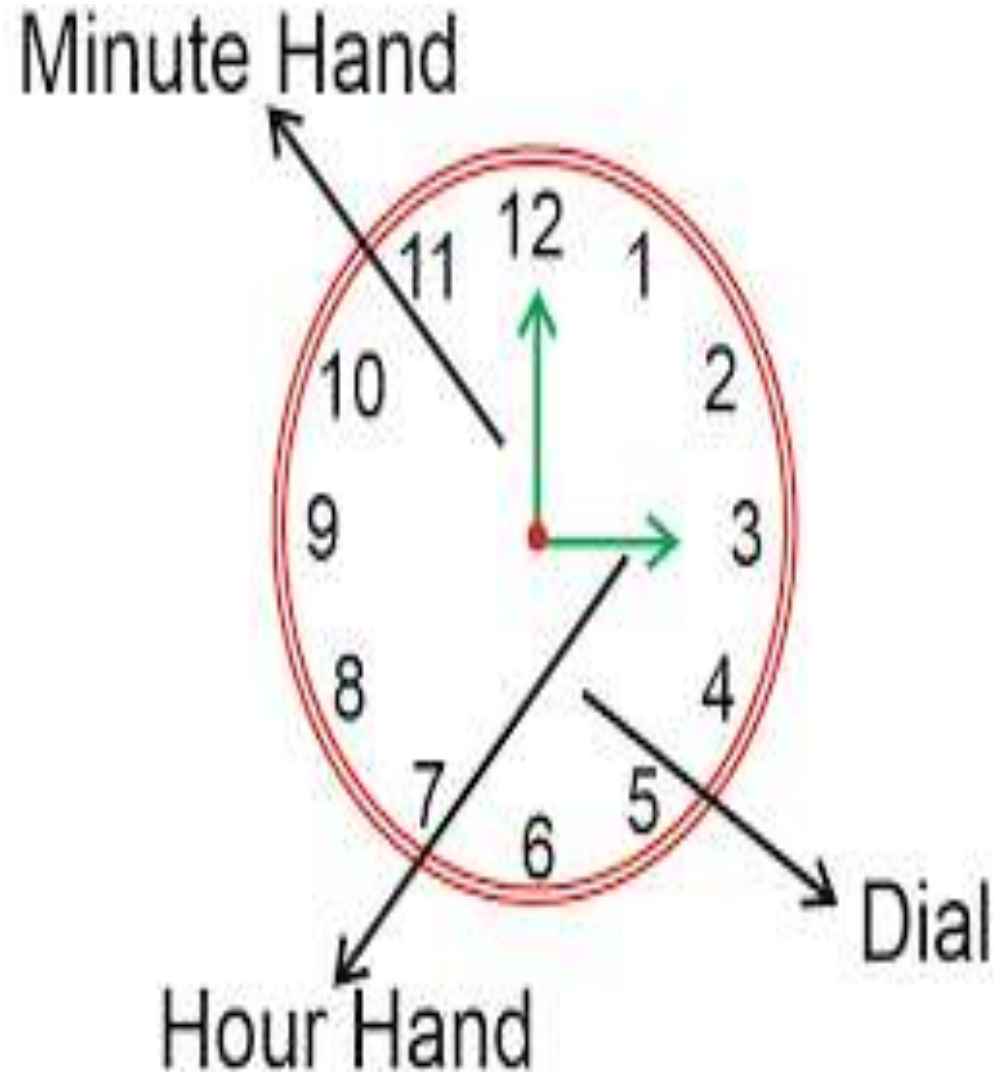1 min = 6º

Hour Hand

12 hr = 360º

1 hr or 60 min = 30º

1 min = (1/2)º

CONCEPT

Coincide in 12 hr (min and hr hand)=11 Times

Opposite in 12 hr (min and hr hand)=11 Times

In between 2 hr(min and hr hand)=4 Right Angle

Except- (2 to 4) and (8 to 10) only 3 Right Angle

In between 2 hr, 2 times opposite min and hr hand.

Except- 5 to7 only one times.

QUESTION

At what time between 4 O'clock and 5 O'clock the minute hand and hour hand

1-Coincide

2- Opposite

3-Right angle

FORMULA

COINCIDE= (5X)*(12/11)

RIGHT ANGLE= (5X+15)*(12/11)

= (5X-15)*(12/11)

OPPOSITE ANGLE=(5X+30)*(12/11)   (If X<6)

=(5X-30)*(12/11)   (If X>6)

BRAHMASTRA

$$[5X+(D^o/6)_{min}]*(12/11)$$

QUESTION

At what time between 2'O clock and 3'O clock, the angle between Hour and Minute hands will be 40°?

QUESTION

What is the angle between the minute hand and hour hand at 9:25?

GATE-2014

Q. At what time between 6 a.m. and 7 a.m. will the minute hand and hour make an angle closest to 60^0?

   (a) 6.22 a.m.   (b) 6.27 a. m.

   (c) 6.38 a.m   (d) 6.45 a.m

Thank
you