GATE ALL BRANCHES

GENERAL APTITUDE

**QUANTITATIVE APTITUDE** 



Lecture No.- 02

# **Recap of Previous Lecture**







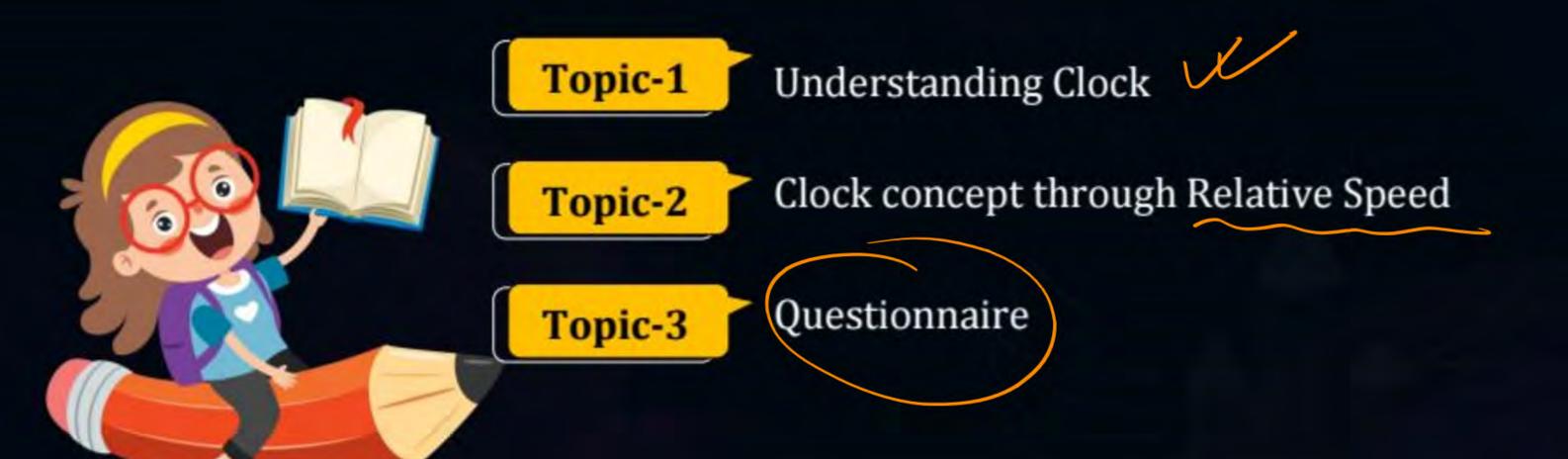


Topic Calendar

# **Topics to be Covered**







Robbine Speed **CLOCK** 

# Relative Speed:



### **Relative Speed:**



- 2. Movement & ame
- 3. Relative Speed (-)

#### Dial of Clock







#### Dial of Clock



#### To be Noted:



✓ Minute Hand Covers 30° in 5 minutes

30°/5 = 6°/min.

✓ Hour Hand Covers 30° in 60 minutes

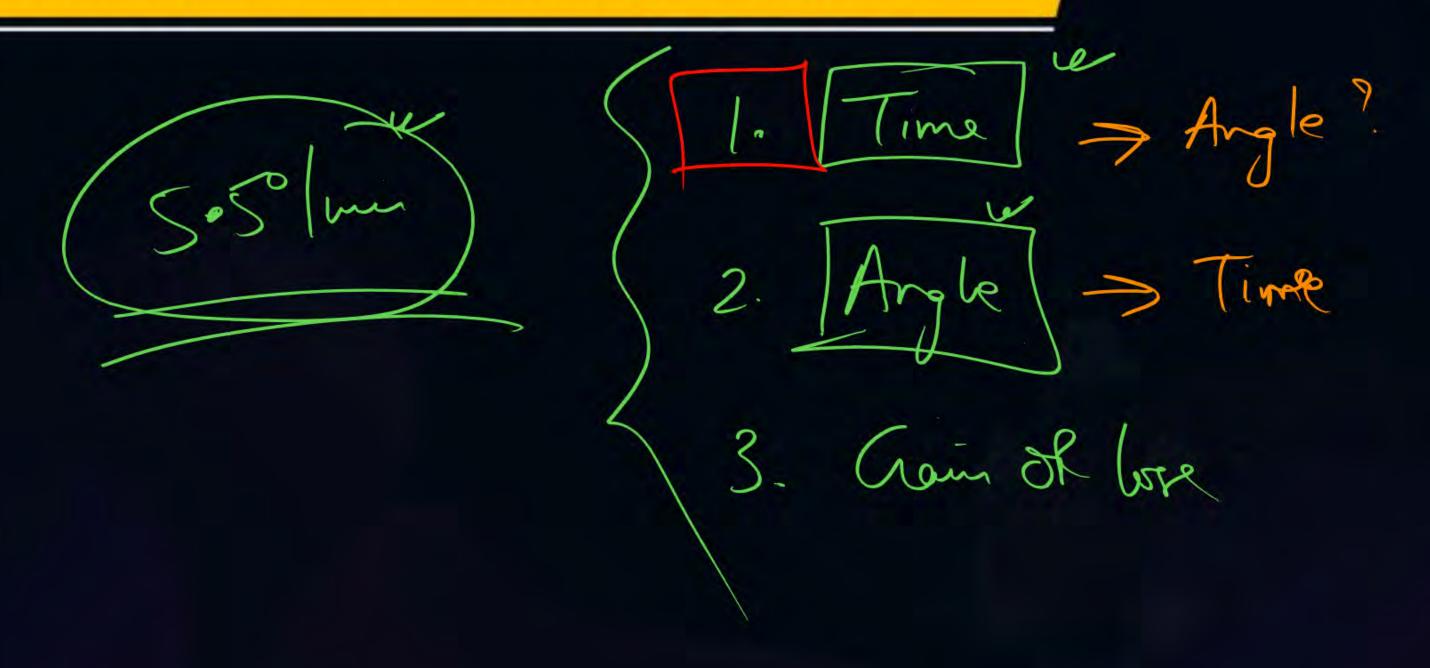
30°/60

$$= \frac{1}{2}$$
° / min or

0.5°/min

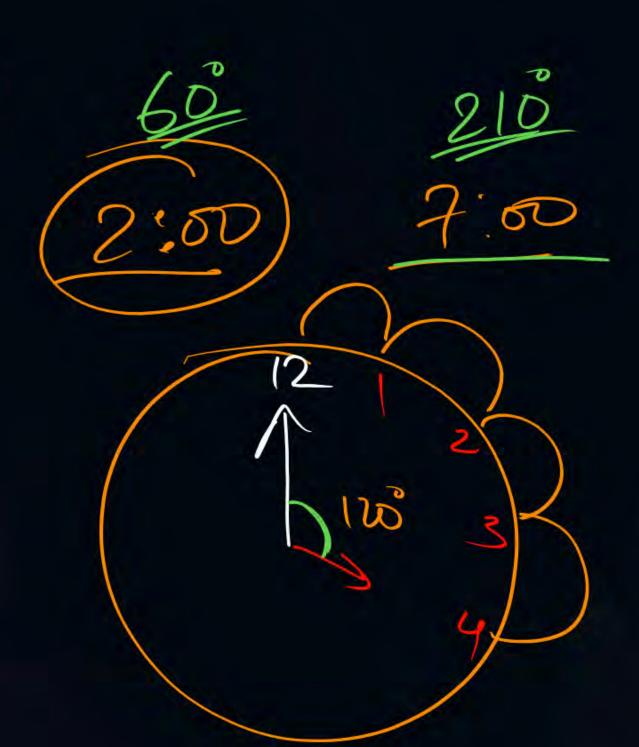


#### Different Patterns of Questions:



#### First Pattern:

8:00 = 240





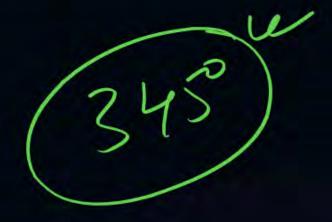
5:00

### Random time given:



350 
$$7:40 > 10$$
 $7 > 210$ 
 $40 \times 55 > 220$ 
 $10^{\circ}$  (Piffence)













352.5

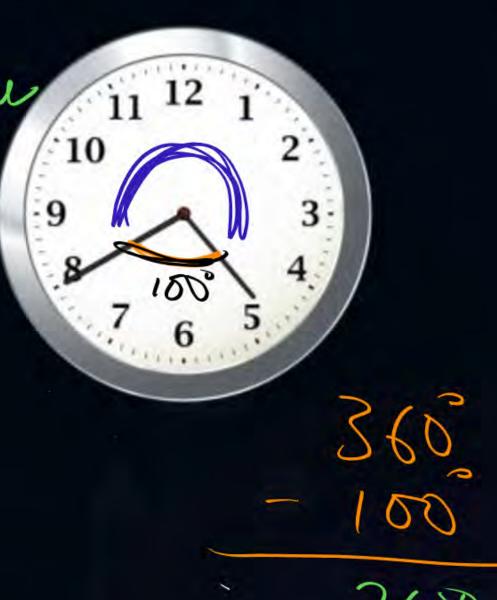
3:15

 $3 \Rightarrow 983.5$ 





10

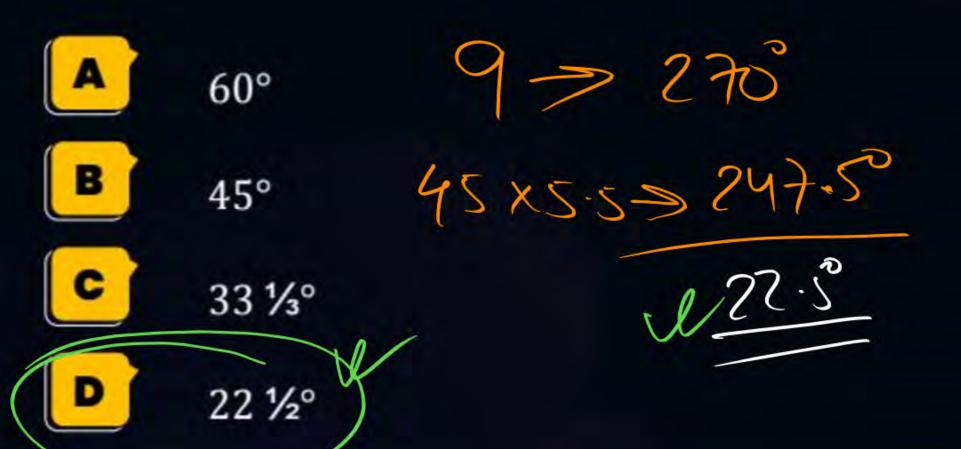


#### [MCQ]

? 360-72.5



#Q. At 9:45, the two hands of a clock make an angle of?









#### **Second Pattern:**





#### 0° OR Coincide:





24 by = 22 times

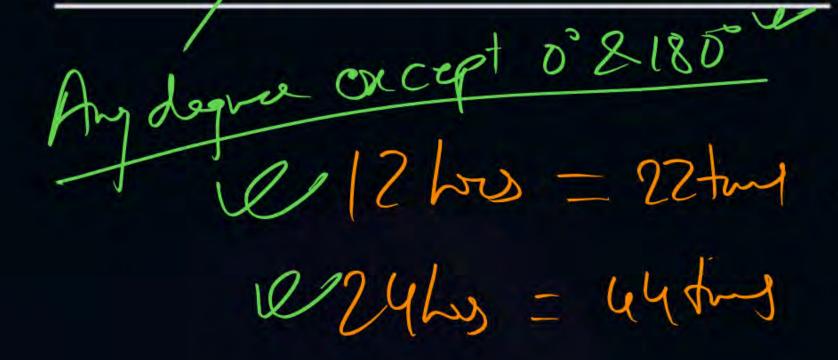


# 180° OR Opposite:

12 hos - 11 times 24 hos - 22 tims



# 90° OR Right angle:



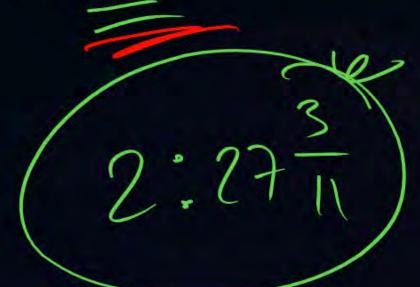






#Q. In between 2 0' clock and 3 0' clock at what time the hands of clock form

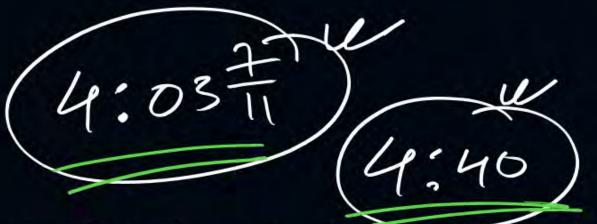
₽/90°?



$$150^{\circ} \times 2 = 300$$

$$150^{\circ} \times 2 = 11$$

$$27 = 11$$





#Q. In between 4 O' clock and 5 O' clock at what time the hands of clock form

$$\frac{20}{5.5} = \frac{40}{11} = 3\frac{7}{11}$$

$$\frac{228}{5.5} = \frac{440}{11} = 40$$
8
7
6
5





#Q. In between 6 O' clock and 7 O' clock at what time the hands of clock form

60°?

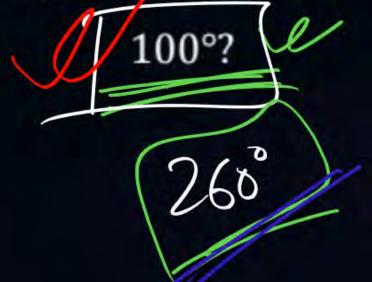






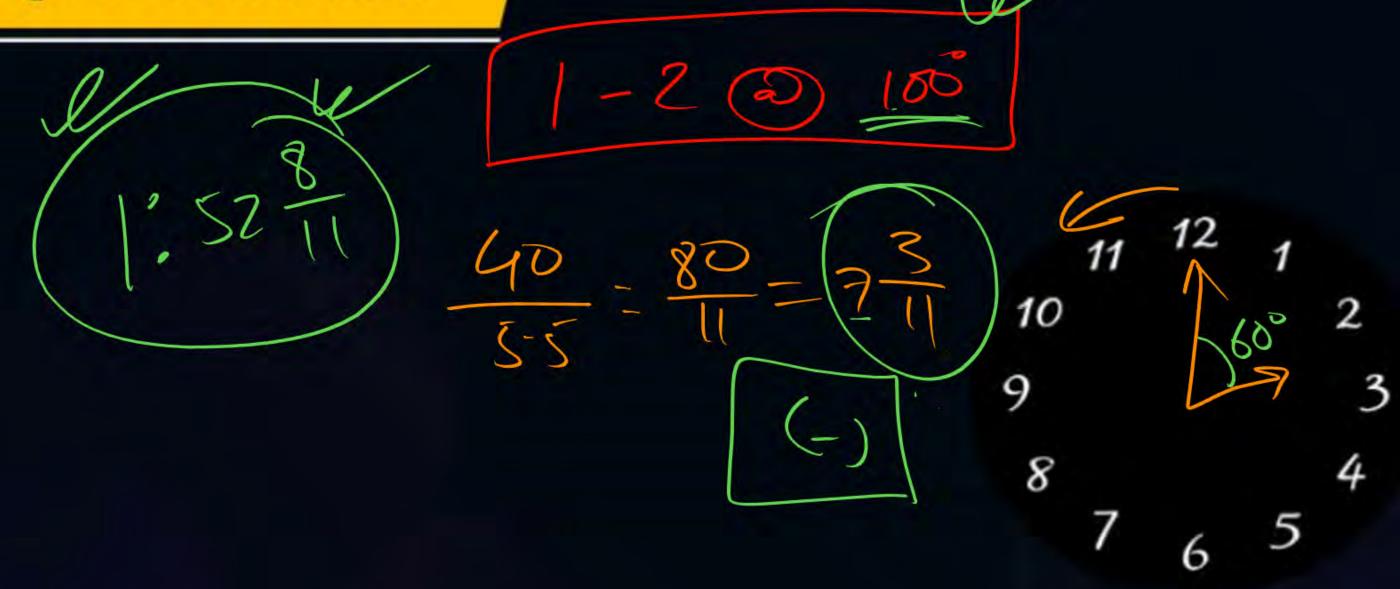


#Q. In between 1 O' clock and 2 O' clock at what time the hands of clock form



$$\frac{130}{5.5} = \frac{760}{11} + \frac{23}{23} + \frac{10}{10} + \frac{12}{36} + \frac{1}{2} + \frac$$





#### **Third Pattern:**

Cain of lose



Timen > Ayle?

(2) [Ayle] > Times

? 12 Lay = 22 tog



#Q. A Clock which gains 5 minutes in every one hour was set correct at 5am. What would be the time shown by that clock at 1pm the same day?

8 x 5 - 40min (t)



#Q. A clock which looses 10 minutes in every one hour was set correct at 4am, what would be the time shown by that clock at 4pm the same day?

12 hs

12 X10 = 120 minuber



Padtern Chain Rule



#### 2 mins Summary



Topic

Clock

Their Role

Relative Speed



# THANK - YOU