



ALL BRANCHES

General Aptitude



Clocks - 1



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TOPICS TO BE COVERED

- 1.
- 2.
- 3.
- 4.

Concept of Clocks

Relating to Time and Distance topic

Movements and angles in Clock

Brainstorming on Clocks

Previous Session (Revision)



1. About Calendars date and day



2. Calendar Repetition



Conditional Questions

Tue Thu
Sat

100 → 5 Fri ✓
200 → 3 wed ✓
300 → 1 Mon ✓
400 → 0 Sun ✓

1D800 $\frac{72}{77}$

$\frac{30}{22}$
8

odd days



Yesterday's Doubt



April 15, 1469: Day of the Week

April 15, 1469 was the 105th day of the year 1469 in the Gregorian calendar.

There were 260 days remaining until the end of the year. The day of the week was *Thursday*.

The day of the week for April 15, 1469 under the old Julian calendar was *Saturday*. Did you notice the difference with the Gregorian calendar?



Q. Mahatma Gandhi was born on 2nd October 1869. What was the week Day?

$$\begin{array}{r}
 1868 \rightarrow 4 \\
 \times 2 = 6 \\
 \hline
 1800 \rightarrow 3
 \end{array}
 \quad \text{Sat}$$

A. Monday

~~C.~~

B. Saturday

C. Thursday

D. Tuesday

$$\begin{array}{r}
 \overline{J-Z} \quad \overline{J-Z} \quad \overline{68} \rightarrow 1 \\
 F - 0 \quad A - 3 \quad L - Y \quad N - Y \\
 M - 3 \quad S - 2 \quad 17 \quad 5 \\
 A - 2 \quad O - 2 \quad \textcircled{34} \\
 M - 3 \\
 \overline{J-Z}
 \end{array}$$

$$6 + 2 = 1$$

$$\begin{array}{r}
 04 \\
 X17 \\
 - \\
 68
 \end{array}$$



Q. The day of the March 16th of any year is the same day of the week as the corresponding date in which month of the same year?

- A. November
- B. September
- C. July
- D. April

March - 3 Aug - 3
April - 2 Sep - 2
May - 3 Oct - 3
June - 2
July - 3

~~Nov - 3~~

Q.

✓ If January 1st 1992 was a Wednesday. What day of the week was January 1st 2003? ✓

92 - 2003

A.

Sunday

B.

Friday

C.

Thursday

D.

Wednesday

1992 - 1993 - 2

98 - 99 → |

1993 - 1994 - |

11

99 - 00 - |

1994 - 95 → |

L-Y N.Y

2000 - 01 - 2

95 - 96 - |

6 8

01 - 02 - |

96 - 97 - 2

02 - 03 - |

97 - 98 - |

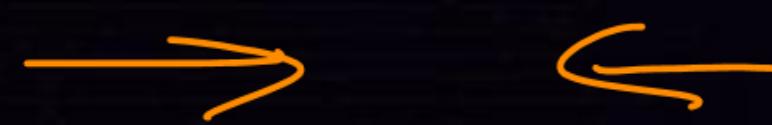
6 + 1 =
= 0 =



CLOCKS

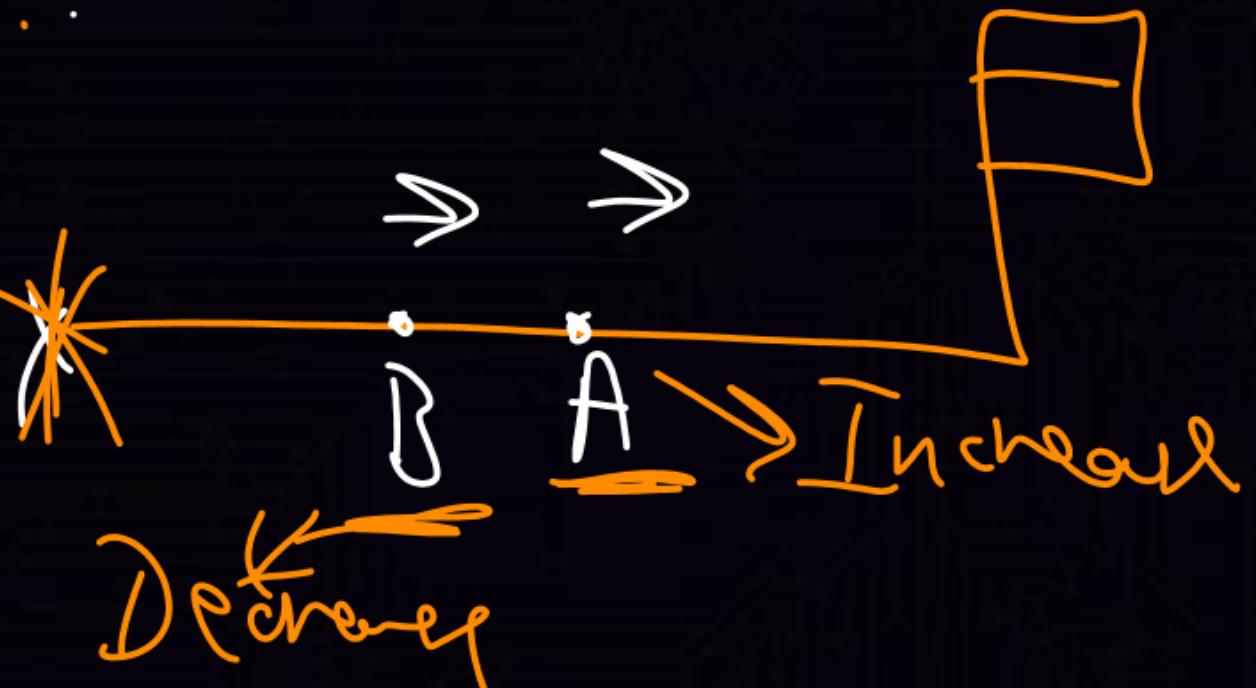
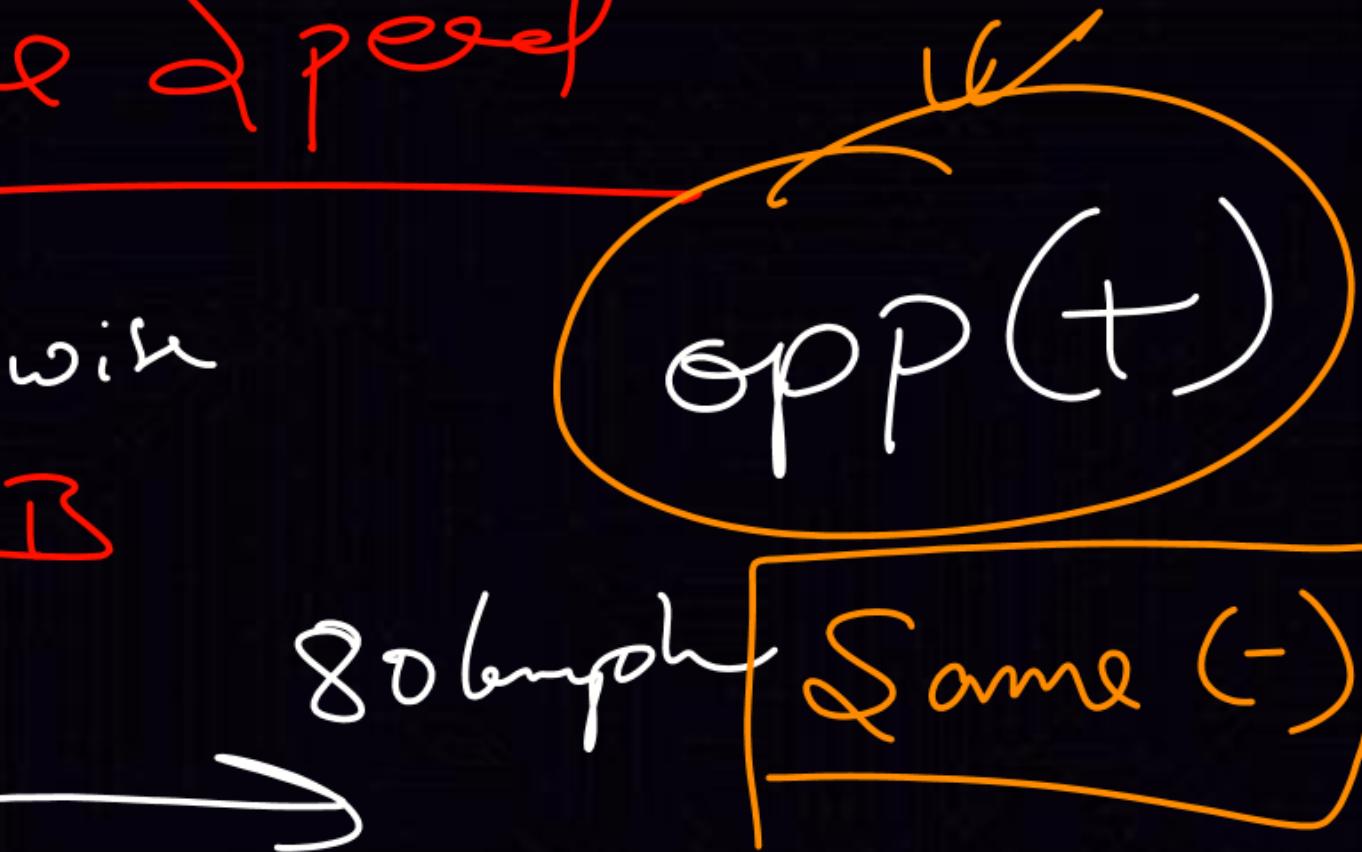
P
W

Relative Speed



How with
 $A \sim B$

\leftarrow
60 kmph





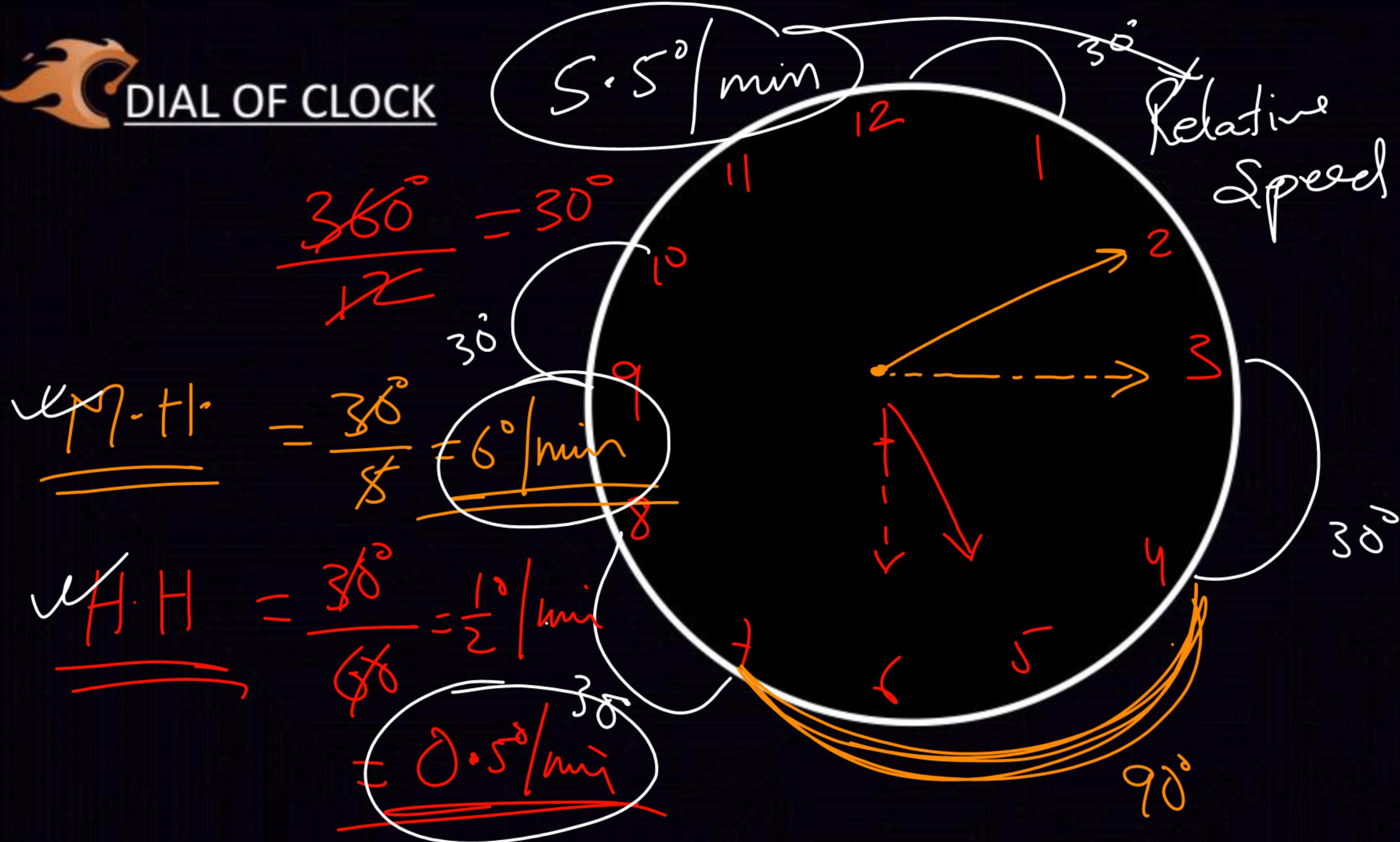
Basic Questions

1. Minimum \rightarrow 2 Hand $H \cdot H$
 $M \cdot H$.
2. Same (Clockwise)
3. (-) Substrat



DIAL OF CLOCK

P
W





TYPES OF QUESTION ASKED

1. Time \rightarrow Angle?
2. Angle \rightarrow Time?
3. Given | Use

2 'o' clock



R.S.

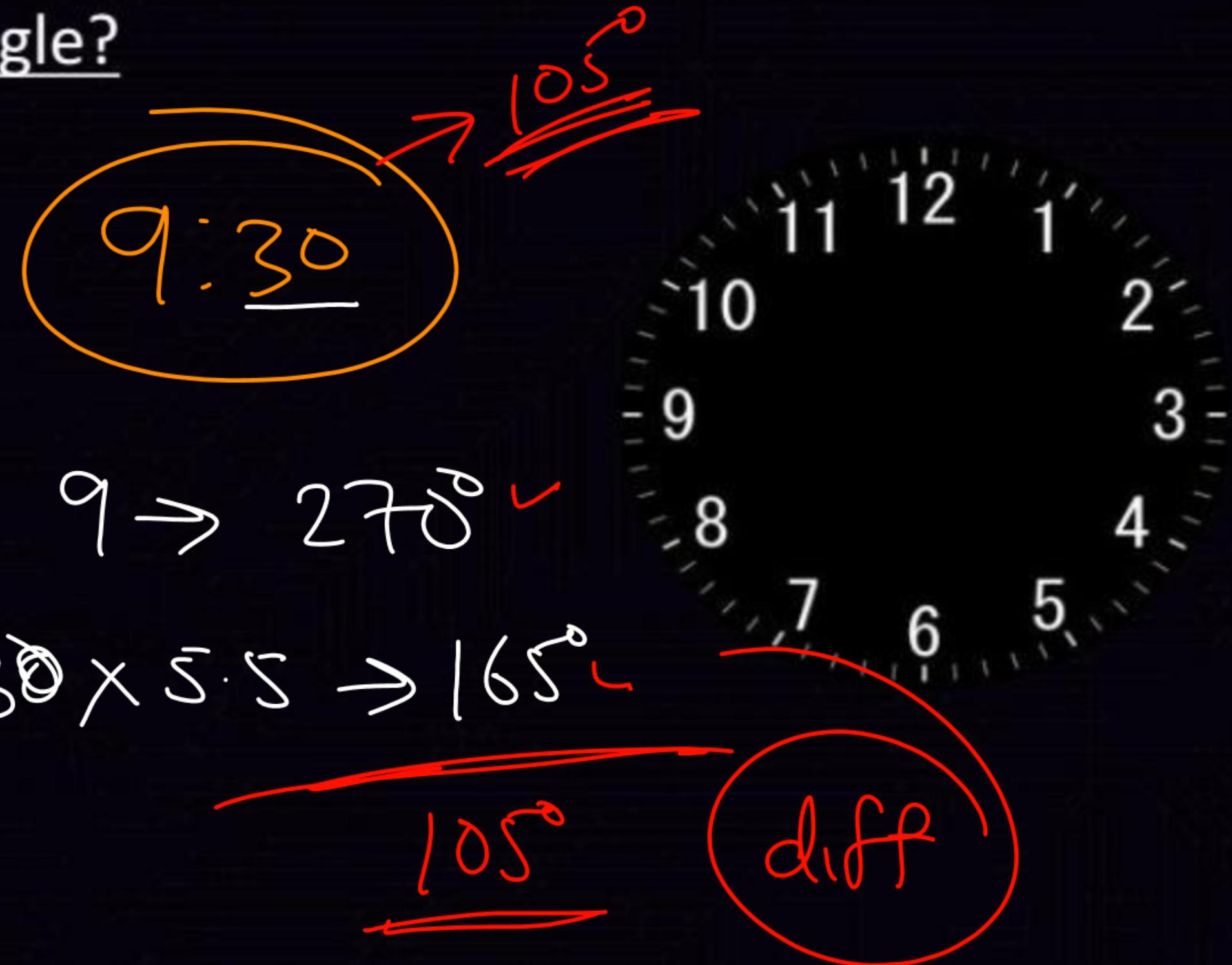
= S.S/min





Time Given: Angle?

PW





Time Given: Angle?

360°
 35°

8:50 → 330°
8:50 → 325°

8 > 240°

$50 \times 5.5 \geq 275^\circ$

$\underline{35^\circ}$





Time Given:

Angle?

360°
 151.5°
 208.5°

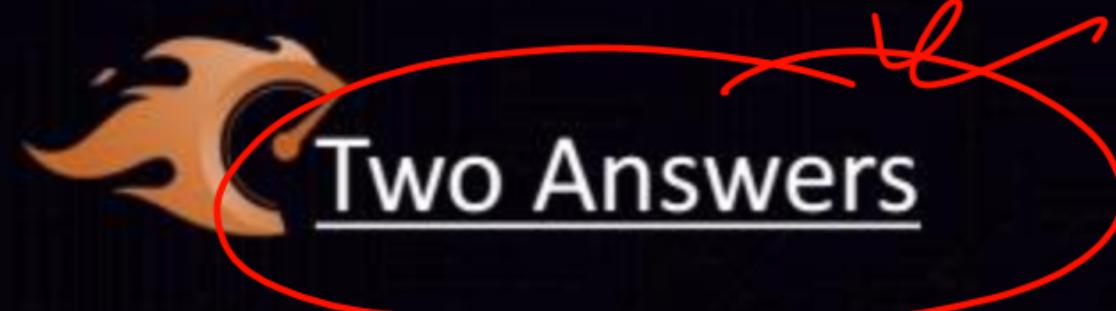
$$10 \Rightarrow 300^\circ$$

$$27 \times 5.5 \Rightarrow 148.5^\circ$$

10:27



151.5



$$3:15 \Rightarrow 7.5^\circ$$

$$352.5^\circ \Rightarrow 90^\circ$$

$$15 \times 5.5 \Rightarrow 82.5^\circ$$



$$360 - 7.5 \Rightarrow 352.5^\circ$$

97

$$\frac{100}{2} = 50$$

$$\frac{50}{2} = 25$$

$$\frac{25}{2} = 12$$

$$\frac{12}{2} = 6$$

$$\frac{6}{2} = 3$$

$$\frac{3}{2} = 1 \quad t=0$$

2⁹⁷

$$15 \times 30 \times 45 \times \dots \sim 15^{50}$$

$$15 \times 1 \times 15 \times 2 \times (5 \times 3 \times 15 \times 4 \dots) \sim 15 \times 10^0$$

$$\boxed{15^{100} \times 100!}$$

5¹⁰⁰
3

97 zeros



*Thank
you!*