





Quantitative Aptitude

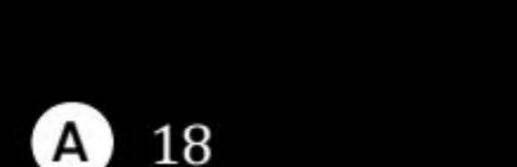
DPP 11 Discussion Notes
Clock





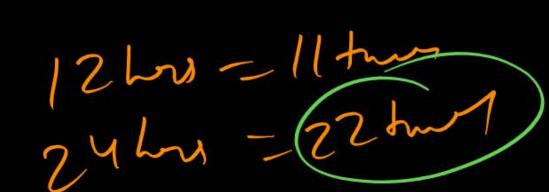


How many times do the hands of a clock point towards each other in a day?















A clock which gains 5 minutes in every two hours is set at 12.00 P.M. on a certain day. Find the time shown by the watch on the next day 11 A.M.

23

X 5.2

- A 12 hrs 47 min 30 sec
- B) 11 hrs 57 min 30 sec
- C 12 hrs 20 min 30 sec
- D 12 hrs 15 min 30 sec

12pm -> 11 am = 23 lue

57.5(t) 57mi 308eg



A clock which loses 10 seconds in every minute is set at 2.00 P.M. on a certain day. Find the time shown by the watch on the next day 8 P.M.

- A 1 P.M.
- B 2 P.M.
- C 3 P.M.
- D 4 P.M.

(-) 10 mute/hr

8pm - 3pm

20 mg = 30 hag

30×10=300mm (-)

= 5 my(-)



A clock which loses 50 seconds every two minutes is set at 6.00 P.M. on a certain day. What is the time shown by this watch on the next day if the current time is 3.00 P.M.?

- A 4 A.M.
- B 9:15 A.M.
- **C** 5 A.M.

D 6:15 A.M.

- (80m) (-) 25 sec / min
- 3 pm (-) 25 min / Los
 - 6:15 m 21 x 25 = 525 min (-) 8 Ly 45 min ()



How many times do the hands of a clock coincide in a day?

- A 22
 - B 23
 - **C** 24
 - **D** 48



How many times are the hands of a clock at right angles in a day?

90

- A 22
- B 48
- C 44
 - **D** 46



What is the angle between the hands of the clock at 2:45?

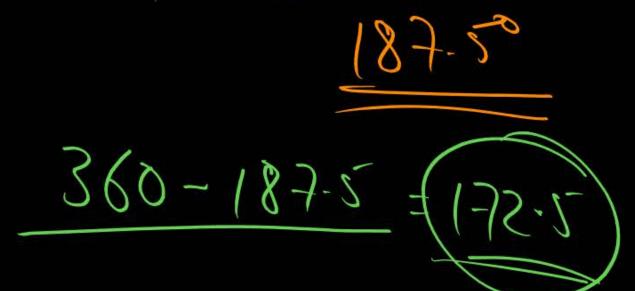
A
$$180\frac{1^{\circ}}{2}$$

B
$$182\frac{1}{2}$$

$$D 181\frac{1^{\circ}}{2}$$

$$182\frac{1^{\circ}}{2} \qquad 2 \rightarrow 60^{\circ}$$

$$45 \times 5.5 \rightarrow 247.5^{\circ}$$

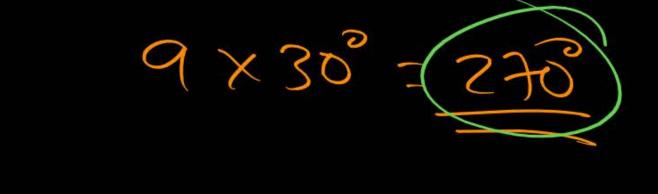




At 9' 0 clock find the angle between the hands of the clock?



$$B 250\frac{1^{\circ}}{2}$$



$$\begin{array}{c} C \\ 150 \frac{1^{\circ}}{2} \end{array}$$

D
$$220\frac{1^{\circ}}{2}$$

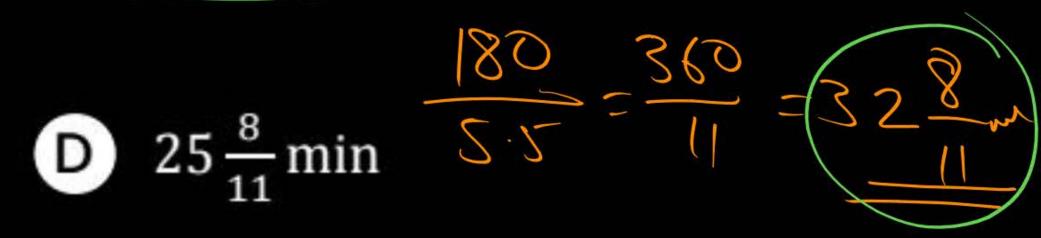


At what time between 6 0' clock and 7 0' clock the hands of the clock will coincide?

 $30\frac{8}{11}$ min

 $32\frac{8}{11}$ min

 $20\frac{8}{11}$ min





At what time between 3 0' clock and 4 0' clock the hands of the clock will be at right angles?

A $30\frac{8}{11}$ min

C $20\frac{8}{11}$ min

 $\frac{8}{32 \frac{8}{11}} \text{min}$

D $25\frac{8}{11}$ min

$$\frac{180}{5.5} = \frac{360}{11} = \frac{3281}{11}$$

