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Exercise: Clock - General Questions

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- 1. An accurate clock shows 8 o'clock in the morning. Through how may degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
 - **(A)** 144°
 - **(B)** 150°
 - **(c)** 168°
 - **(**) 180°

Answer: Option (1)

Explanation:

Angle traced by the hour hand in 6 hours = $\left(\frac{360}{12} \times 6\right)^{\circ}$ = 180°.









2. The reflex angle between the hands of a clock at 10.25 is:

- **(A)** 180°
- **B** 192 $\frac{1}{2}^{\circ}$

© 195°

1 197
$$\frac{1}{2}$$

Answer: Option (1)

Explanation:

Angle traced by hour hand in $\frac{125}{12}$ hrs = $\left(\frac{360}{12} \times \frac{125}{12}\right)^{\circ} = 312\frac{1}{2}$.

Angle traced by minute hand in 25 min = $\left(\frac{360}{60} \times 25\right)^{\circ}$ = 150°.

∴ Reflex angle = 360° - $\left(312\frac{1}{2} - 150\right)^{\circ} = 360^{\circ} - 162\frac{1}{2}^{\circ} = 197\frac{1^{\circ}}{2}$.









- 3. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:
 - **(A)** 145°
 - **B** 150°
 - (c) 155°
 - (I) 160°

Answer: Option (C)

Explanation:

Angle traced by hour hand in 12 hrs = 360°.

Angle traced by hour hand in 5 hrs 10 min. *i.e.*, $\frac{31}{6}$ hrs = $\left(\frac{360}{12} \times \frac{31}{6}\right)^{\circ}$ = 155°.









- 4. A watch which gains 5 seconds in 3 minutes was set right at 7 a.m. In the afternoon of the same day, when the watch indicated quarter past 4 o'clock, the true time is:
 - **(A)** $59\frac{7}{12}$ min. past 3
 - **B** 4 p.m.
 - © $58\frac{7}{11}$ min. past 3
 - **1** $2\frac{3}{11}$ min. past 4

Answer: Option (B)

Explanation:

Time from 7 a.m. to 4.15 p.m. = 9 hrs 15 min. = $\frac{37}{4}$ hrs.

3 min. 5 sec. of this clock = 3 min. of the correct clock.

$$\Rightarrow \frac{37}{720}$$
 hrs of this clock = $\frac{1}{20}$ hrs of the correct clock.

$$\Rightarrow \frac{37}{4}$$
 hrs of this clock = $\left(\frac{1}{20} \times \frac{720}{37} \times \frac{37}{4}\right)$ hrs of the correct clock.

- = 9 hrs of the correct clock.
- ∴ The correct time is 9 hrs after 7 a.m. i.e., 4 p.m.









- 5. How much does a watch lose per day, if its hands coincide every 64 minutes?
 - **(A)** $32\frac{8}{11}$ min.
 - **B** $36\frac{5}{11}$ min.
 - © 90 min.
 - **1** 96 min.

Answer: Option (A)

Explanation:

55 min. spaces are covered in 60 min.

60 min. spaces are covered in $\left(\frac{60}{55} \times 60\right)$ min. = $65\frac{5}{11}$ min.

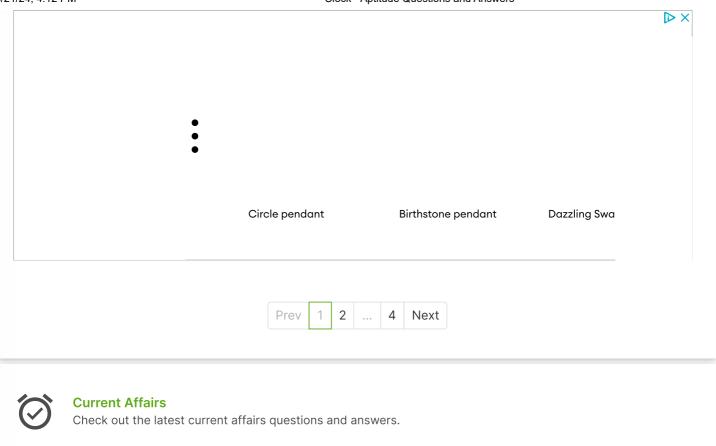
Loss in 64 min. =
$$\left(65\frac{5}{11} - 64\right) = \frac{16}{11}$$
 min.

Loss in 24 hrs =
$$\left(\frac{16}{11} \times \frac{1}{64} \times 24 \times 60\right)$$
 min. = $32\frac{8}{11}$ min.









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