Aptitude :: Clock

Exercise : Clock - General Questions

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- ☑ Clock - General Questions

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°

   (D) 180°

Answer: Option (D)

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°

Ⓓ $197\frac{1}{2}°$

Answer: Option Ⓓ

Explanation:

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

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

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

3. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:

Ⓐ 145°

Ⓑ 150°

Ⓒ 155°

Ⓓ 160°

Answer: Option Ⓒ

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:

Ⓐ $59\frac{7}{12}$ min. past 3

Ⓑ 4 p.m.

Ⓒ $58\frac{7}{11}$ min. past 3

Ⓓ $2\frac{3}{11}$ min. past 4

Answer: Option Ⓑ

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.

$\therefore$ 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?

Ⓐ $32\frac{8}{11}$ min.

Ⓑ $36\frac{5}{11}$ min.

Ⓒ 90 min.

Ⓓ 96 min.

Answer: Option Ⓐ

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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