



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

## MIRROR IMAGE

**Trick:** If it is 12 hours, Subtract from **11:60** or **12:00**

If it is 24 hours, Subtract from **23:60**.

1) The time shown in the mirror is 7:20. What is the real-time shown on the clock?

- a. 05:40
- b. 04:50
- c. 04:40
- d. 04:00

**Ans: c. 04:40**

**Explanation:**

11:60



07:20

04:40

2) The time seen in the mirror is 6:40. What is the actual time on the clock?

- a. 05:20
- b. 05:00
- c. 04:20
- d. 04:00

**Ans: a. 05:20**

**Explanation:**

11:60



06:40

05:20



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3) If the time shown in the mirror is 4:00, what is the actual time on the clock?

- a. 07:60
- b. 06:60
- c. 07:07
- d. 06:07

Ans: a. 07:60

Explanation:

11:60



04:00

07:60

or 8:00

4) The reflected time on the mirror is 8:45. What is the real-time shown on the clock?

- a. 03:15
- b. 03:20
- c. 03:51
- d. 03:25

Ans: a. 03:15

Explanation:

11:60



08:45

03:15



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5) If the time visible in the mirror is 10:30, what is the actual time on the clock?

- a. 01:00
- b. 01:03
- c. 01:33
- d. 01:30

Ans: d. 01:30

Explanation:

11:60  
10:30  

---

01:30

6) A clock is viewed in a mirror, and the time is shown as 08:10. What is the true time displayed on the clock?

- a. 03:50
- b. 05:30
- c. 03:05
- d. 05:03

Ans: a. 03:50

Explanation:

11:60  
08:10  

---

03:50



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7) If the time shown in the mirror is 10:35, what is the correct time on the clock?

- a. 01:35
- b. 01:25
- c. 01:52
- d. 01:53

**Ans: b. 01:25**

**Explanation:**

11:60



10:35

---

01:25

---

8) If the time shown on a clock is viewed in a mirror and it appears as 12:23, what is the actual time on the clock?

- a. 11:20
- b. 12:27
- c. 11:37
- d. 10:27

**Ans: c. 11:37**

**Explanation:**

11:60



(Exceeds 12 means write as 00)

00:23

---

11:37

---



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
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9) A clock is reflected in a mirror, and the time displayed is 11:21. What is the true time on the clock?

- a. 01:39
- b. 00:39
- c. 00:37
- d. 01:21

Ans: b. 00:39

Explanation:

11:60 

11:21

00:39 or 12:39

10) A clock is mirrored, showing the time as 9 hours 48 minutes. What is the correct time displayed on the clock?

- a. 02:14
- b. 02:00
- c. 02:12
- d. 02:20

Ans: c. 02:12

Explanation:

11:60 

09:48

02:12



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
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## WATER IMAGE

Trick: If it is 12 hours clock Subtract from **18:30 /17:90**

11) The time seen in the water is 7:20. What is the real-time on the clock?

- a. 11:10
- b. 11:11
- c. 10:10
- d. 10:11

Ans: a. 11:10

Explanation:

$$\begin{array}{r} 18:30 \\ 07:20 \\ \hline 11:10 \end{array}$$

12) If a clock is reflected in water and shows the time as 6:30, what is the actual time on the clock?

- a. 01:00
- b. 02:00
- c. 12:00
- d. 11:00

Ans: c. 12:00

Explanation:

$$\begin{array}{r} 18:30 \\ 06:30 \\ \hline 12:00 \end{array}$$



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13) The time in the water is 4:00. What is the true time on the clock?

- a. 02:03
- b. 03:02
- c. 02:30
- d. 03:20

**Ans: c. 02:30**

**Explanation:**

18:30



04:00

14:30

Subtract 12:00 from 14:30. Then the water image is 02:30.

14) When you look at a clock reflected in water, the time appears as 8:45. What is the real-time shown by the clock?

- a. 09:45
- b. 08:55
- c. 09:20
- d. 08:20

**Ans: a. 09:45**

**Explanation:**

17: 90

~~18:30~~

08:45

09:45

(60+30)-45



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15) If a clock is reflected in the water, the time shown is 10:30. What is the actual time on the clock?

- a. 12:00
- b. 11:00
- c. 10:00
- d. 08:00

**Ans: d. 08:00**

**Explanation:**

18:30

10:30

08:00

16) A clock's reflection in water shows the time as 03:10. What is the real-time on the clock?

- a. 02:00
- b. 02:20
- c. 03:00
- d. 03:20

**Ans: d. 03:20**

**Explanation:**

18:30

03:10

15:20

Subtract 12:00 from 15:20. Then the water image is 03:20.





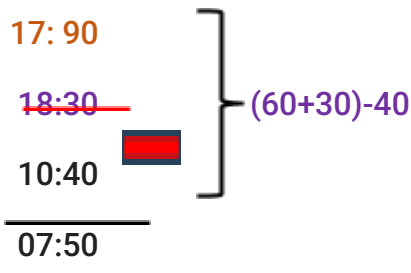
Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

17) The time displayed on a clock, when viewed through the reflection in water, is 10:40. What is the actual time on the clock?

- a. 06:50
- b. 06:05
- c. 07:50
- d. 07:05

**Ans: c. 07:50**

**Explanation:**

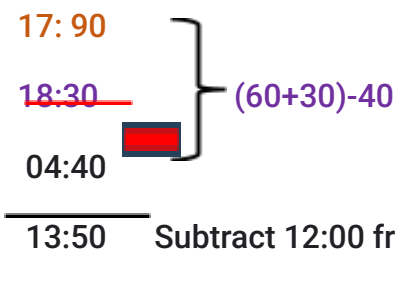


18) A clock, when viewed in the water's reflection, shows 04:40. What is the true time on the clock?

- a. 01:50
- b. 04:50
- c. 03:50
- d. 02:50

**Ans: a. 01:50**

**Explanation:**



Subtract 12:00 from 13:50. Then the water image is 01:50.



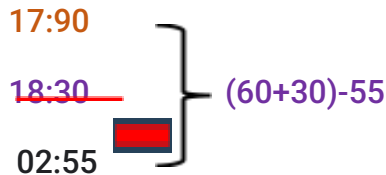
Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

19) The reflection of a clock in water shows 02:55. What is the real-time on the clock?

- a. 02:35
- b. 03:25
- c. 02:25
- d. 03:35

**Ans: d. 03:35**

**Explanation:**



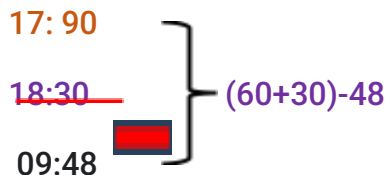
15:35 Subtract 12:00 from 15:35. Then the water image is 03:35.

20) When a clock is reflected in water, the time shown is 9 hours 48 minutes. What is the real-time on the clock?

- a. 08:22
- b. 09:22
- c. 09:48
- d. 08:42

**Ans: d. 08:42**

**Explanation:**



08:42



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

## ANGLE MADE BY MINUTE HAND AND HOUR HAND

21) What will be the angle between the two hands of the clock at 8:30 pm?

- a.  $90^{\circ}$
- b.  $75^{\circ}$
- c.  $60^{\circ}$
- d.  $85^{\circ}$

**Ans: b.  $75^{\circ}$**

**Explanation:**

Formula:  $\theta = 30(H) - 11/2(M)$

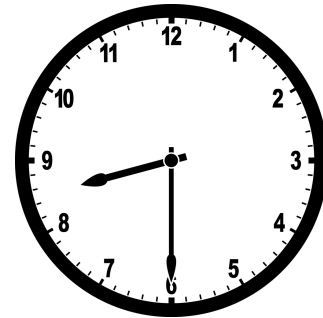
### Method 1

$$\theta = 30H - 11/2(M)$$

$$= 30(8) - 11/2(30)$$

$$= 240 - 165$$

$$\theta = 75^{\circ}$$



### Method 2

**Step 1: No. of divisions between the minute hand and hour hand  $\times 30$**

**Step 2: Minutes  $/ 2$**

No of divisions between Minute and Hour hand  $= 2 \times 30 = 60$

Minutes  $/ 2 = 30 / 2 = 15$

Adding  $60 + 15 = 75^{\circ}$



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

22) What will be the angle between the two hands of the clock at 4:30 pm?

- a.  $90^{\circ}$
- b.  $45^{\circ}$
- c.  $60^{\circ}$
- d.  $85^{\circ}$

**Ans: b.  $45^{\circ}$**

**Explanation:**

Formula:  $\theta = 30(H) \sim 11/2(M)$

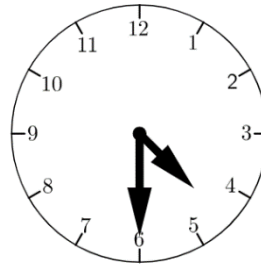
Method 1

$$\theta = 30H \sim 11/2(M)$$

$$= 30(4) \sim 11/2(30)$$

$$= 120 \sim 165$$

$$\theta = 45^{\circ}$$



Method 2

**Step 1: No.of.divisions between the minute hand and hour hand\*30**

**Step 2: Minutes /2**

No of divisions between Minute and Hour hand  $= 2 \times 30 = 60$

Minutes/2  $= 30/2 = 15$  (The hour hand is **behind** the minute hand)

Subtracting  $60 - 15 = 45^{\circ}$



<b>Name of the Bundle</b>	Intermediate Bundle V2	<b>Subject</b>	Aptitude
<b>Topic</b>	Clock	<b>Last updated on</b>	6 December 2024

23) What will be the angle between the two hands of the clock at 6:15 pm?

- a.  $90^{\circ}$
- b.  $97.5^{\circ}$
- c.  $60^{\circ}$
- d.  $85^{\circ}$

**Ans: b.  $97.5^{\circ}$**

**Explanation:**

Formula:  $\theta = 30(H) \sim 11/2(M)$

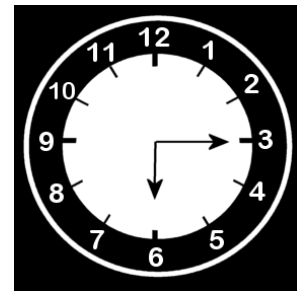
**Method 1**

$$\theta = 30H \sim 11/2(M)$$

$$= 30(6) \sim 11/2(15)$$

$$= 180 \sim 82.5$$

$$\theta = 97.5^{\circ}$$



**Method 2**

**Step 1: No. of divisions between the minute hand and hour hand  $\times 30$**

**Step 2: Minutes  $/ 2$**

No of divisions between Minute and Hour hand  $= 3 \times 30 = 90$

Minutes  $/ 2 = 15 / 2 = 7.5$  (The hour hand is ahead of the minute hand)

Adding  $90 + 7.5 = 97.5^{\circ}$ .



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

24) What will be the angle between the two hands of the clock at 8:40 pm?

- a.  $90^\circ$
- b.  $20^\circ$
- c.  $60^\circ$
- d.  $85^\circ$

**Ans: b.  $20^\circ$**

**Explanation:**

Formula:  $\theta = 30(H) - 11/2(M)$

**Method 1**

$$\begin{aligned}\theta &= 30H - 11/2(M) \\ &= 30(8) - 11/2(40) \\ &= 240 - 220\end{aligned}$$

$$\theta = 20^\circ$$



**Method 2**

**Step 1: No. of divisions between the minute hand and hour hand  $\times 30$**

**Step 2: Minutes  $/ 2$**

No divisions between Minute and Hour hand  $= 0 \times 30 = 0$

Minutes  $/ 2 = 40 / 2 = 20$  (The hour hand is ahead of the minute hand)

Adding  $0 + 20 = 20^\circ$



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

25) What will be the angle between the two hands of the clock at 5.00 pm?

- a.  $90^{\circ}$
- b.  $150^{\circ}$
- c.  $160^{\circ}$
- d.  $85^{\circ}$

**Ans: b.  $150^{\circ}$**

**Explanation:**

Formula:  $\theta = 30(H) \sim 11/2(M)$

**Method 1**

$$\theta = 30H \sim 11/2(M)$$

$$= 30(5) \sim 11/2(0)$$

$$= 150 \sim 0$$

$$\theta = 150^{\circ}$$



**Method 2**

**Step 1: No.of.divisions between the minute hand and hour hand\*30**

**Step 2: Minutes /2**

$$\text{No of divisions between Minute and Hour hand} = 5 \times 30 = 150$$

$$\text{Minutes}/2 = 0/2 = 0 (\text{Hour hand is ahead the minute hand})$$

$$\text{Adding } 150 + 0 = 150^{\circ}$$



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

26) What will be the reflex angle between the two hands of the clock at 7.00 pm?

- a.  $90^\circ$
- b.  $210^\circ$
- c.  $160^\circ$
- d.  $85^\circ$

**Ans: b.  $210^\circ$**

**Explanation:**

Formula:  $\theta = 30(H) \sim 11/2(M)$

**Method 1**

$$\theta = 30H \sim 11/2(M)$$

$$= 30(7) \sim 11/2(0)$$

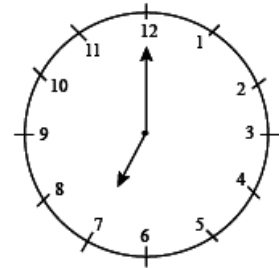
$$= 210 \sim 0$$

$$\theta = 210^\circ.$$

**Method 2**

**Step 1: No.of.divisions between the minute hand and hour hand\*30**

**Step 2: Minutes /2**



No of divisions between Minute and Hour hand  $= 7 * 30^\circ = 210$

Minutes/2  $= 0/2 = 0$  (Hour hand is ahead the minute hand)

Adding  $210 + 0 = 210^\circ$





Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

27) What will be the reflex angle between the two hands of the clock at 10:10 pm?

- a.  $115^{\circ}$
- b.  $120^{\circ}$
- c.  $160^{\circ}$
- d.  $185^{\circ}$

**Ans: a.  $115^{\circ}$**

**Explanation:**

Formula:  $\theta = 30(H) \sim 11/2(M)$

**Method 1**

$$\theta = 30H \sim 11/2(M)$$

$$= 30(10) \sim 11/2(10)$$

$$= 300 \sim 55$$

$$\theta = 245^{\circ}$$



If the value is Greater than 180, then Subtract from 360.

$$\theta = 360 - 245 = 115^{\circ}$$

**Method 2**

**Step 1: No.of.divisions between the minute hand and hour hand\*30**

**Step 2: Minutes /2**

$$\text{No of divisions between Minute and Hour hand} = 4 \times 30 = 120$$

$$\text{Minutes}/2 = 10/2 = 5 \text{ (The hour hand is behind the minute hand)}$$

$$\text{Subtracting } 120 - 5 = 115^{\circ}$$



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## HANDS -COINCIDE, OPPOSITE TO EACH OTHER, PERPENDICULAR.

28) At what time between 6 o'clock and 7 o'clock will the hands of a clock coincide?

- 6:32  $\frac{8}{11}$  minutes
- 6:34  $\frac{8}{11}$  minutes
- 6:30  $\frac{8}{11}$  minutes
- 6:32  $\frac{5}{7}$  minutes

**Ans: a. 6:32  $\frac{8}{11}$  minutes**

**Explanation:**

The hands of the clock coincide at **6:30** between 6 o'clock and 7 o'clock.

Formula:  $H: \frac{12}{11}(M)$

Smaller  
number

6:  $\frac{12}{11}(30)$

6:  $\frac{360}{11}$

6:  $32 \frac{8}{11}$

**The trick to find the Answer without using a pen:**

Check the mixed fraction from the given options

**Example:** a) 6:32  $\frac{8}{11}$  minutes

**Add the values** a) 6:  $32 + \frac{8}{11}$  minutes

Check whether the **unit digit is zero or not.**

If the unit digit is zero, that is the Answer. So option (a) is the Answer.

Here  $32 + 8 = 40$ .



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
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29) At what time between 9 o'clock and 10 o'clock will the hands of a clock be opposite to each other?

- 9:15 minutes
- 9:16 minutes
- 9:16  $\frac{4}{11}$  minutes
- 9:17  $\frac{1}{11}$  minutes

**Ans: c. 9:16  $\frac{4}{11}$  minutes**

**Explanation:**

The hands of the clock opposite each other means a straight line (180 degrees) at **9: 15** between 9 o'clock and 10 o'clock.

Formula:  $H: \frac{12}{11}(M)$

Smaller  
number



9:12/11(15)

9:180/11

9:16  $\frac{4}{11}$

**The trick to find the Answer without using a pen:**

Check the mixed fraction from the given options

**Example:** c) 9:16  $\frac{4}{11}$  minutes

**Add the values** c) 9: 16 +  $\frac{4}{11}$  minutes. Here  $16+4=20$ .

Check whether the **unit digit is zero or not.**

If the unit digit is zero, that is the Answer. So option c is the Answer.



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

30) At what time in a minute between 3 o'clock and 4 o'clock, will both needles coincide with each other?

- a.  $5 \frac{1}{11}$  minutes
- b.  $12 \frac{4}{11}$  minutes
- c.  $16 \frac{4}{11}$  minutes
- d.  $17 \frac{1}{11}$  minutes

**Ans: c.  $16 \frac{4}{11}$  minutes**

**Explanation:**

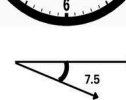
The hands of the clock at **3: 15** between 3 o'clock and 4 o'clock.

Formula:  $H: \frac{12}{11}(M)$

Smaller number



Angle between an hour and minute hand at 3:15



But there is a slight deviation in the position of the hour hand when the minute hand is exactly at 15 minutes.

3:  $\frac{12}{11}(15)$

3:  $\frac{180}{11}$

3:  $16 \frac{4}{11}$

**The trick to find the Answer without using a pen:**

Check the mixed fraction from the given options

**Example:** c)  $16 \frac{4}{11}$  minutes

**Add the values** c)  $16 + \frac{4}{11}$  minutes. Here  $16 + 4 = 20$ .

Check whether the **unit digit is zero or not.**

If the unit digit is zero, that is the Answer. So, option c is the Answer.



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
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31) At what time between 11 o'clock and 12 o'clock will the hands of a clock be at an angle of  $180^\circ$ ?

- 11:27  $\frac{3}{11}$  minutes
- 11:30 minutes
- 11:31  $\frac{3}{11}$  minutes
- 11:25 minutes

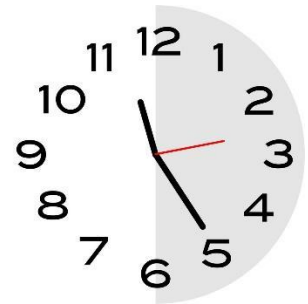
**Ans: a. 11:27  $\frac{3}{11}$  minutes**

**Explanation:**

The hands of the clock opposite each other meet in a straight line ( $180$  degrees) at **11: 25** between 9 o'clock and 10 o'clock.

Formula:  $H: \frac{12}{11}(M)$

Smaller number



But there is a slight deviation in the position of the hour hand when the minute hand is exactly at 15 minutes

11:  $\frac{12}{11}(25)$

11:  $\frac{300}{11}$

11:  $27 \frac{3}{11}$

**The trick to find the Answer without using a pen:**

Check the mixed fraction from the given options

**Example:** a) 11:27  $\frac{3}{11}$  minutes

**Add the values** a) 11:  $27+3$  minutes. Here  $27+3=30$ .

Check whether the **unit digit is zero or not**.

If the unit digit is zero, that is the Answer. So option (a) is the Answer.



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## PERPENDICULAR TO EACH OTHER

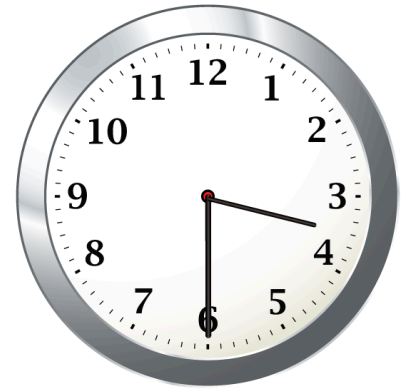
32) At what time between 3 o'clock and 4 o'clock will the hands of the clock be at  $90^\circ$ ?

- a. 3: 45 minutes
- b. 3: 32  $\frac{8}{11}$  minutes
- c. 3: 30 minutes
- d. 3: 15 minutes

**Ans: b. 3: 32  $\frac{8}{11}$  minutes**

**Explanation:**

The hands of the clock will be 90 degrees at **3:30** between 3 o'clock and 4 o'clock.



Formula:  $H: \frac{12}{11}(M)$

Smaller  
number

But there is a slight deviation in the position of the hour hand when the minute hand is exactly at 30 minutes.

3:  $\frac{12}{11}(30)$   
3:  $30 \times \frac{12}{11}$   
3:  $\frac{360}{11}$   
3: **32  $\frac{8}{11}$**

**The trick to find the Answer without using a pen:**

Check the mixed fraction from the given options

**Example:** b) 3:32  $\frac{8}{11}$  minutes

**Add the values** b) 3: **32+8**/ $\frac{8}{11}$  minutes. Here **32+8=40**.

Check whether the **unit digit is zero or not**.

If the unit digit is zero, that is the Answer. So option b is the Answer.



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## CLOCK ERROR (OR) DEFECTIVE CLOCK

33) A defective clock gains 5 minutes every hour. If the clock is set correctly at noon, what will be the time shown on the clock at 6:00 PM?

- a. 06:30 AM
- b. 07:30 PM
- c. 06:30 PM
- d. 07:30 AM

**Ans: c. 06:30 PM**

**Explanation:**

- **Time Passed (Real Time):** From 12:00 noon to 6:00 PM, the real time is 6 hours.
- **Extra Time Gained:**

The clock gains 5 minutes every hour. So, in 6 hours, the clock will gain:

**Formula:**

$$\{[Slow \text{ (or) Fast}] / (Slow + Fast)\} \times Total \text{ time Hr/days}$$

$$5 \text{ minutes/hour} \times 6 \text{ hours} = 30 \text{ minutes}$$

$$6:00 \text{ PM} + 30 \text{ minutes} = \mathbf{6:30 \text{ PM}}$$

Since the real-time is 6:00 PM, the defective clock will show 6:30 PM.



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

34) A clock that moves continuously fast. It lags 5 minutes on Sunday at 8 am, it is ahead 7 minutes on Tuesday at 8 am then find when the clock shows the right time.

- a. Monday 4 AM
- b. Monday 8 AM
- c. Tuesday 2 AM
- d. Tuesday 4 AM

**Ans: a. Monday 4 AM**

**Explanation:**

**Formula:**

$$\{[Slow (or) Fast ]/(Slow+Fast)\} \times Total\ time\ Hr/days$$

Sunday 8 AM 5 minutes lag

Monday

Tuesday 8 AM 7 minutes lead

} 48 HOURS

$$= 5/(5+7) \times 48$$

$$= 5 \times 4 = 20 \text{ Hrs}$$

Sunday 8 AM +20 Hrs

=Monday 4 AM

The right time of the clock is MONDAY 4 AM.





Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

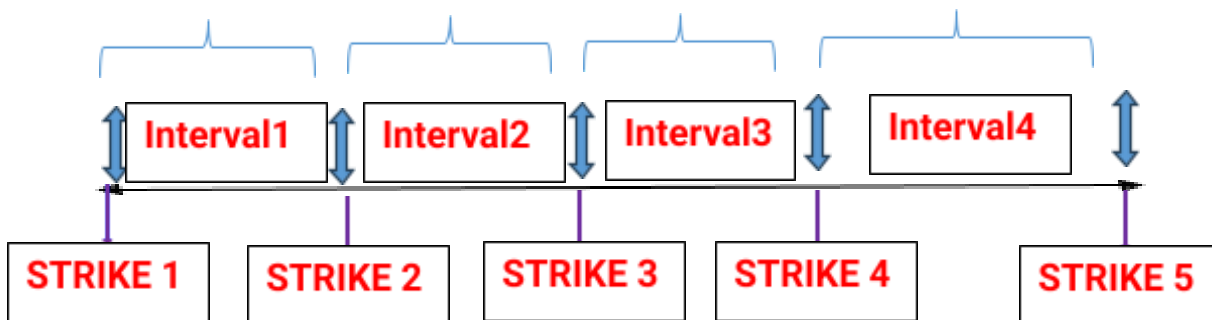
## STRIKING CLOCK

35) A clock takes 8 seconds to strike 5 times. Then how many seconds does it take to make 10 strikes?

- a. 10 seconds
- b. 18 seconds
- c. 11 seconds
- d. 16 seconds

**Ans: b. 18 seconds**

**Explanation:**



5 Strikes = 4 equal intervals.

4 equal intervals 8 seconds.

1 interval=2 seconds.

For 10 strikes = 9 equal intervals.

9 equal intervals= $9 \times 2 = 18$  seconds



Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Clock	Last updated on	6 December 2024

## POINTS TO REMEMBER

ANGLE MADE BY MINUTE HAND AND HOUR HAND.

HANDS	1 hour	1 Minute
HOUR HAND	$30^\circ$	$1/2^\circ$
MINUTE HAND	$360^\circ$	$6^\circ$

MINUTE HAND AND HOUR HAND MEET

NO. OF HOUR	NO. OF TIMES	MEET AT
1 HOUR	1	11/2 minutes
12 HOURS	11 Times	65 5/11 minutes

A number of times the hands of the clock make  $180^\circ, 360^\circ, 90^\circ$ .

Degree	In a day (24 hours)	In 12 hours
0 degree / 360 degrees	22 times	11 times
180 degrees	22 times	11 times
90 degrees	44 times	22 times