

दीवार घड़ी
CLOCK - 4



0-90-180

Other than standard angle questions

मानक के अलावा
दिये गये वाले कोण

$$A = \left| 30H - \frac{11}{2}M \right|$$

$$\pm A = 30H - \frac{11}{2}M \Rightarrow \frac{11}{2}M = 30H \pm A$$

$$M = \frac{2}{11}(30H \pm A)$$

Other than standard angle questions

$$M = \frac{2}{11} (30H \pm A)$$

M = मिनट में समय

H = घंटे में समय

A = कोण Angle

QUESTION:-48

H
8-9 AM

$$\begin{aligned}\text{min} &= \frac{2}{11}(30H \pm A) \\ &= \frac{2}{11}(30 \times 8 \pm 75)\end{aligned}$$

$$\begin{aligned}\frac{2}{11}(240+75) \\ \frac{2}{11}(315) &= \frac{630}{11} \\ &= 57\frac{3}{11} \\ &\underline{\underline{8:57\frac{3}{11}}}\end{aligned}$$

$$\begin{aligned}\text{min} &= \frac{2}{11}(240-75) \\ \frac{2}{11}(165) &= \frac{330}{11} = 30 \\ &\underline{\underline{8:30}}\end{aligned}$$

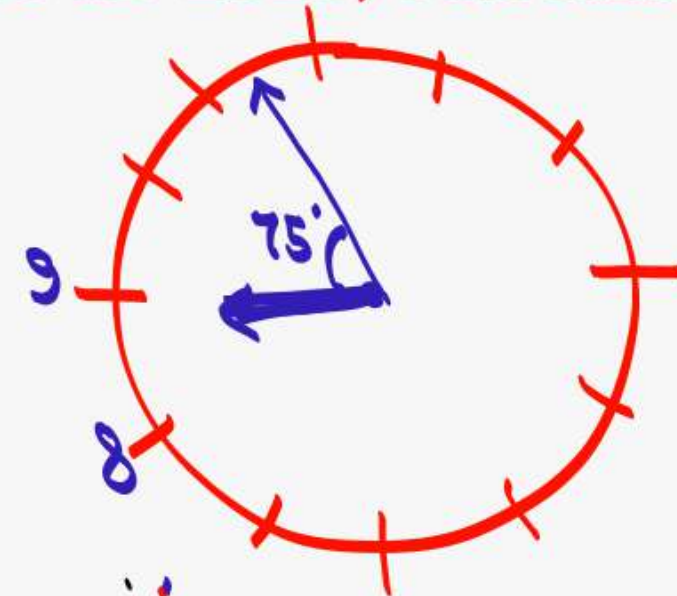
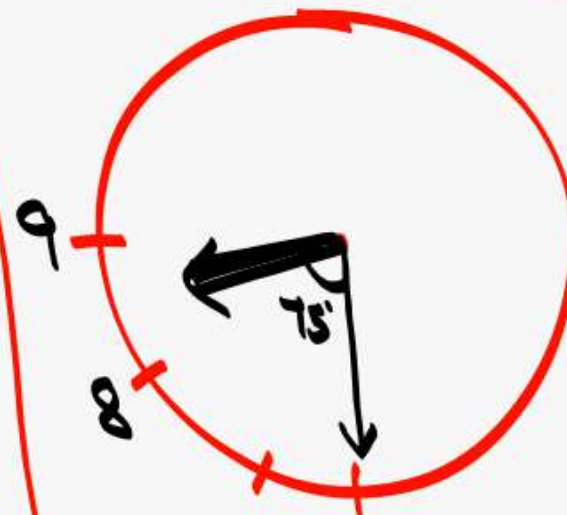
At what time (approximately) (in AM) between 8 AM and 9 AM will the angle between the hour and the minute hand of a clock be 75 degrees?

8 पूर्वाह्न और 9 पूर्वाह्न के बीच (लगभग) किस समय (पूर्वाह्न में) घड़ी की घंटे और मिनट की सुई के बीच का कोण 75 डिग्री होगा?

(a) 8:55
✓ (c) 8:57

(b) 8:54
(d) 8:59

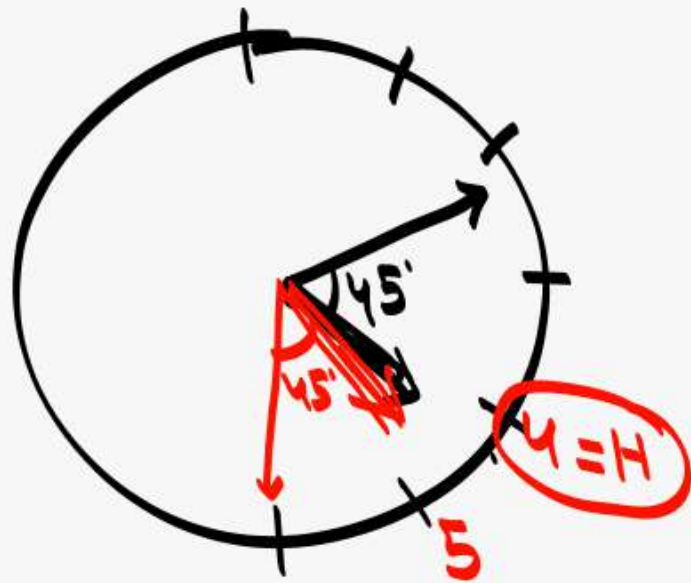
SSC GD 2026, 08.05.2026, Shift-1



QUESTION:- 49

At what time 4 O'clock and 5 O'clock will the hands of a clock formed an angle of 45° ?

4 बजे और 5 बजे किस समय घड़ी की सूइयां 45° का कोण बनाएंगी?



$$\text{Min} = \frac{2}{11}(30H \pm A)$$

$$\frac{2}{11}(30 \times 4 + 45)$$

$$\frac{2}{11}(120 + 45) = \frac{2}{11}(165)$$

$$= 30$$

$$\boxed{4:30}$$

$$\frac{2}{11}(30 \times 4 - 45)$$

$$\frac{2}{11}(120 - 45) = \frac{150}{11}$$

$$= 13\frac{7}{11}$$

$$\boxed{4:13\frac{7}{11}}$$

QUESTION:- 50

At what time 3 O'clock and 4 O'clock will the hands of a clock formed an angle of 60° ?

3 बजे और 4 बजे कस समय घड़ी की सूइयां 60° का कोण बनाएंगी?

$$\text{H}^{\circ} \\ 3-4$$

$$\text{min} = \frac{2}{11}(30H \pm A)$$

$$\text{min} = \frac{2}{11}(30 \times 3 \pm 60)$$

$$\frac{2}{11}(90+60)$$

$$\frac{2}{11}(150) = \frac{300}{11}$$

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

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

$$\frac{2}{11}(90-60)$$

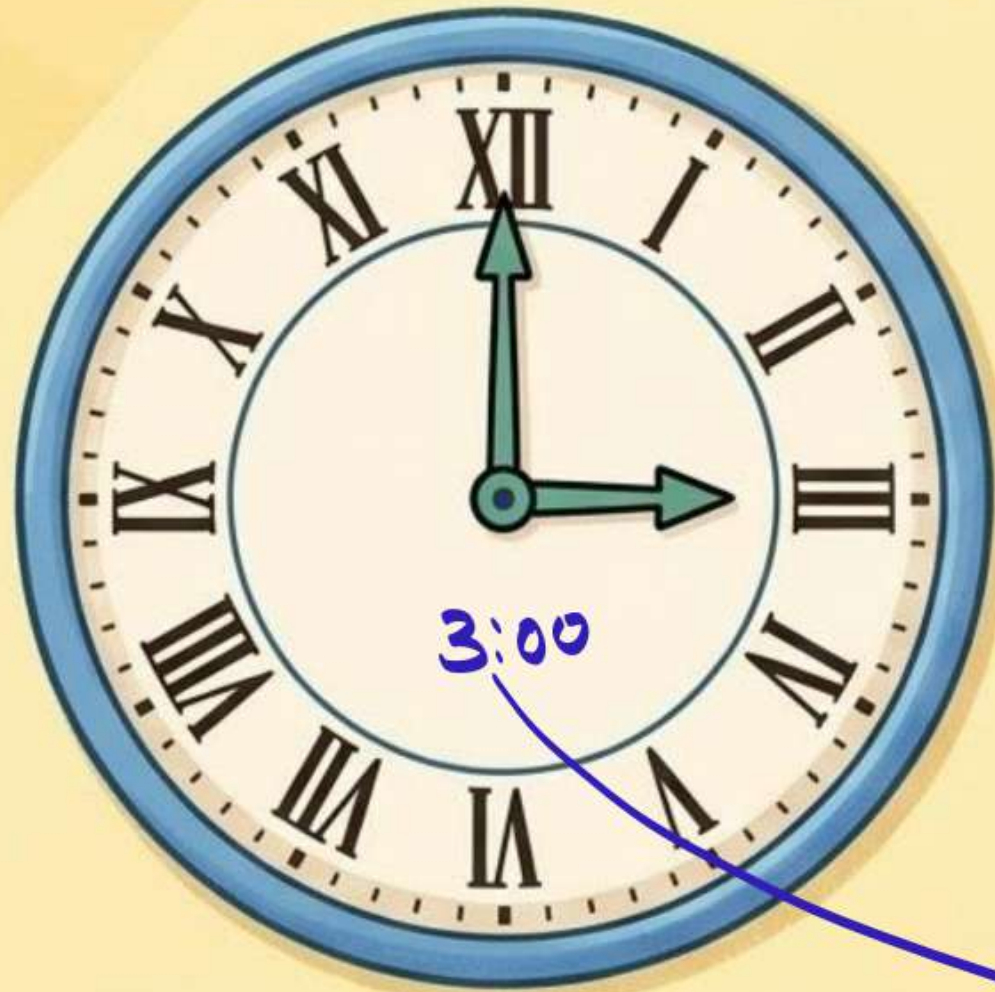
$$\frac{2}{11}(30) = \frac{60}{11} = 5\frac{5}{11}$$

$$\text{3: } 5\frac{5}{11}$$



Mirror Image

ACTUAL TIME

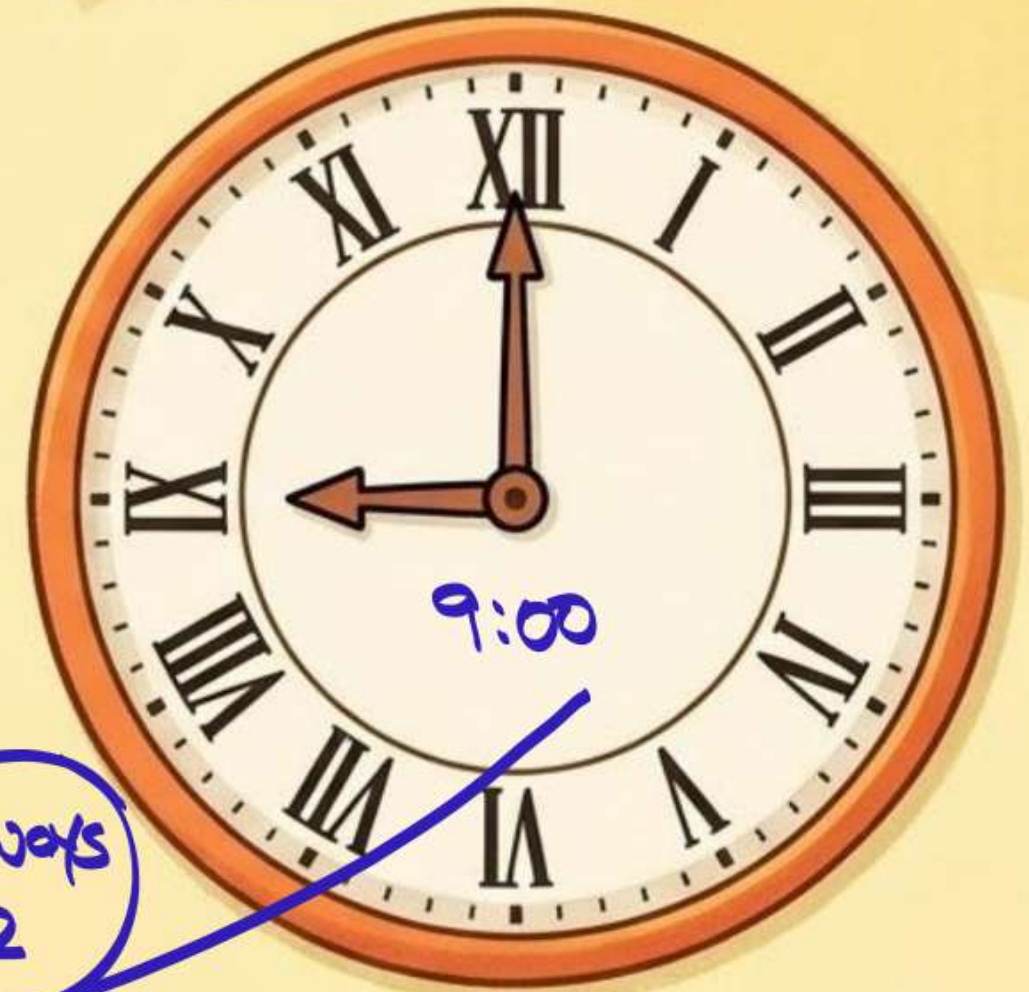


Clock face showing 3:00

Left Right
बायाँ दाई



MIRROR IMAGE



Reflection showing 9:00

Always
12

11 hours 60 minutes – 3 hours 00 minutes = 8 hours 60 minutes

This is the same as: $8 + (60 \text{ mins} = 1 \text{ hour}) = 9:00$



TO FIND THE MIRROR TIME: Always subtract the Actual Time from 11 hours and 60 minutes!

Example વાસ્તવિક ઘડી

✓ 3:12

✓ 4:27

✓ 5:19

✓ 9:12

11:59

6:43

દર્પણ

11:60 - 3:12

8:48 ✓

11:60

- 4:27

⇒ 7:33

11:60

- 5:19

⇒ 6:41

6:41

11:60

- 9:12

⇒ 2:48

2:48

11:60

- 11:59

⇒ 00:01

12:01

00:01

11:60

- 6:43

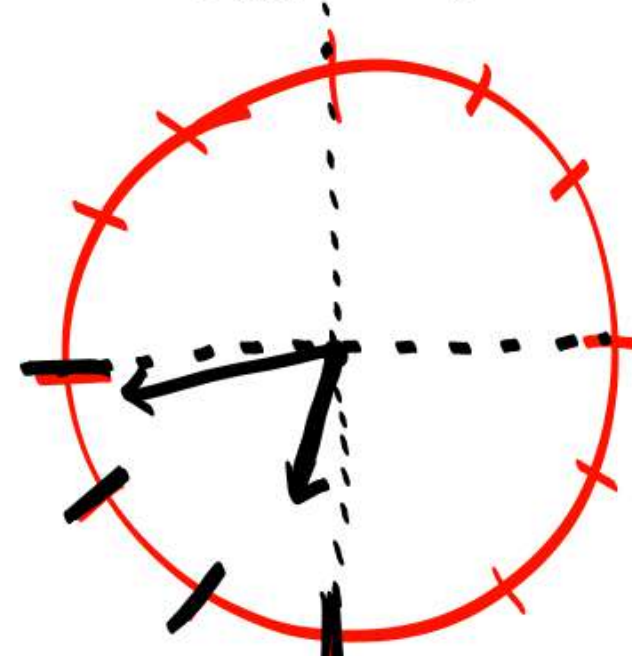
⇒ 5:17

5:17

12 સે ઘટાડો

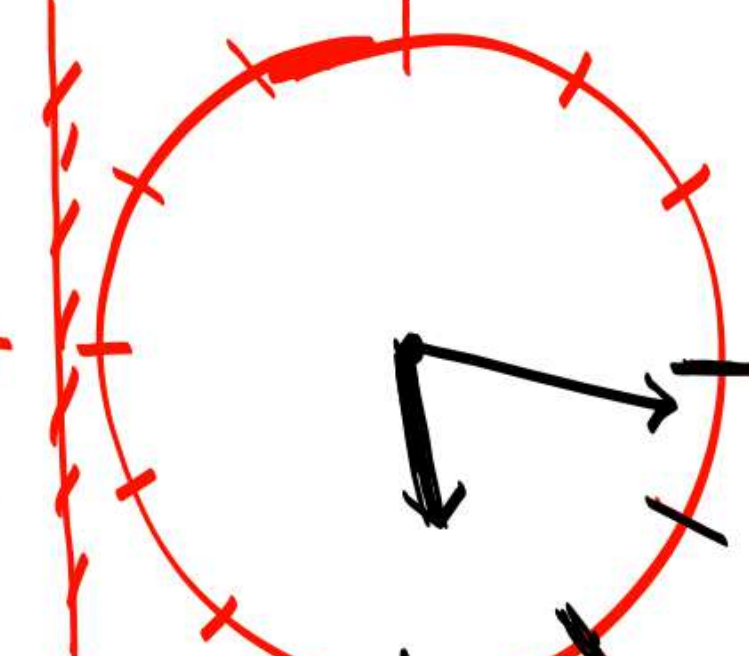
11:60

વાસ્તવિક



6:43

દર્પણ



5:17

Mirror Image

Vertical Mirror → 12 में से घटाएं

Original Time + Vertical Image Time = ^{H:M}12 (11:60)

Vertical Image Time = 12 (11:60) – Original Time

QUESTION:- 51

A clock is showing 8.15 in a mirror what is real time.

एक घड़ी दर्पण में 8.15 दिखा रही है, वास्तविक समय क्या है।

11:60

8:15

3:45 ✓

✓ (a) 3.45

(b) 4.45

(c) 5.45

(d) 2.45

QUESTION:- 52

$$\begin{array}{r} 11:60 \\ - 6:25 \\ \hline 5:35 \checkmark \end{array}$$

Find the real time when the exact time shows in mirror was 6 :25?

वास्तविक समय ज्ञात कीजिए जब दर्पण में सटीक समय 6:25 दिखाई देता है?

☒ (a) 5:35

(b) 6:40

(c) 9:10

(d) 4:35

QUESTION:- 53

H : M

11 : 60

$$\begin{array}{r} - 8 : 40 \\ \hline 3 : 20 \end{array}$$

Find the mirror image when the exact time shows in a clock was 8:40?

दर्पण छवि ज्ञात कीजिए जब घड़ी में सटीक समय 8:40 दिखाई दे रहा हो?

(a) 4:20

(b) 7:55

☒ (c) 3:20

(d) 6:40

Water Images

ਜਲ ਚਿੱਤ੍ਰ



method

^H
✓ 5/17 : 30/90 ^m
 × ✓

मे से छटार

4:52



$$\begin{array}{r} 5:90 \\ - 4:52 \\ \hline 1:38 \checkmark \end{array}$$

→ 1:38



REAL CLOCK (ACTUAL TIME: 5:35)



5:35



17:90

5:35

12:55 ✓

WATER IMAGE
REFLECTION



12:55

REFLECTED TIME (STUDY RESULT): 12:56

QUESTION:- 54

What is real time if time in water image in 4.15?

4.15 में पानी की छवि में यदि समय हो तो वास्तविक समय क्या है?

Trick

5:17 : 30/90

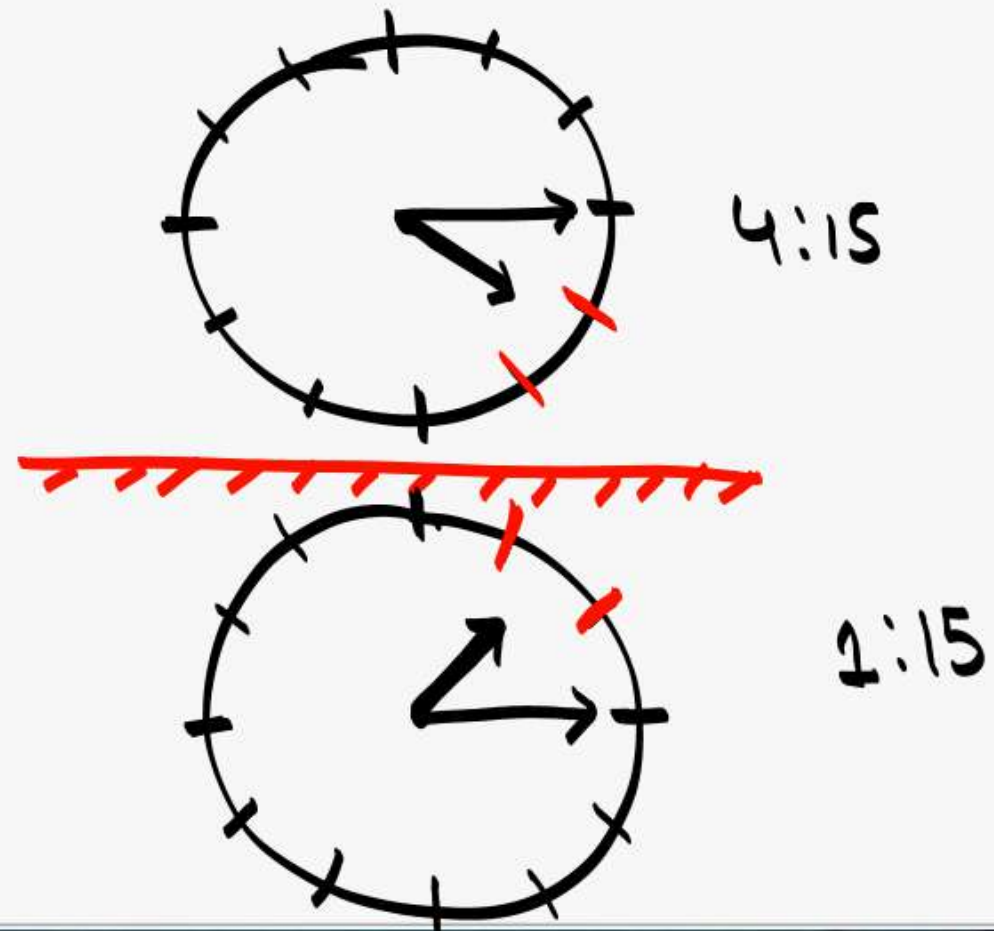
$$\begin{array}{r} 5:30 \\ - 4:15 \\ \hline 1:15 \checkmark \end{array}$$

(a) 1.15

(b) 2.15

(c) 1.30

(d) 1.25



~~जानत 2:15~~

QUESTION:- 55

What is real time if time in water image in 1.45?

1.45 में पानी की छवि में यदि समय हो तो वास्तविक समय क्या है?

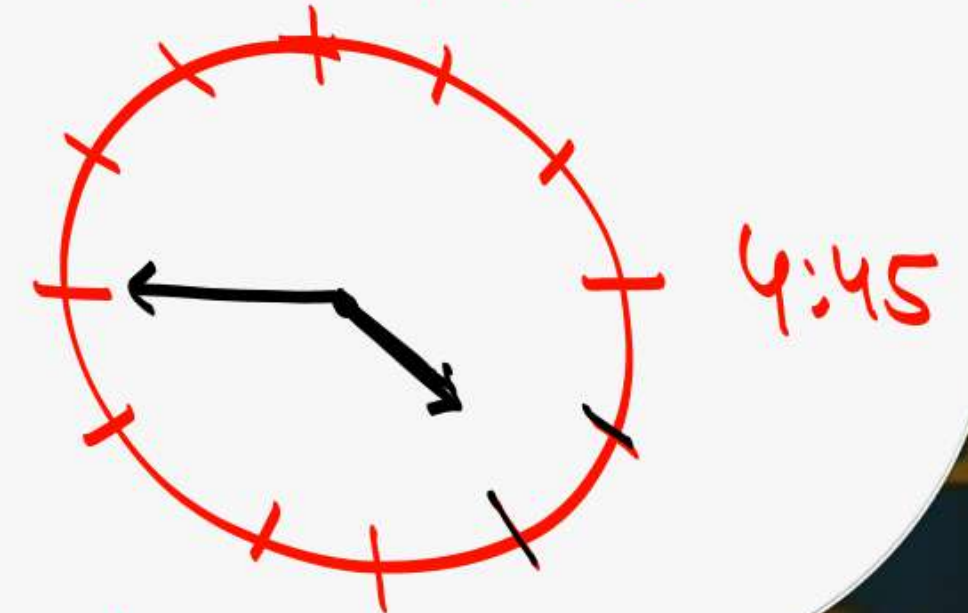
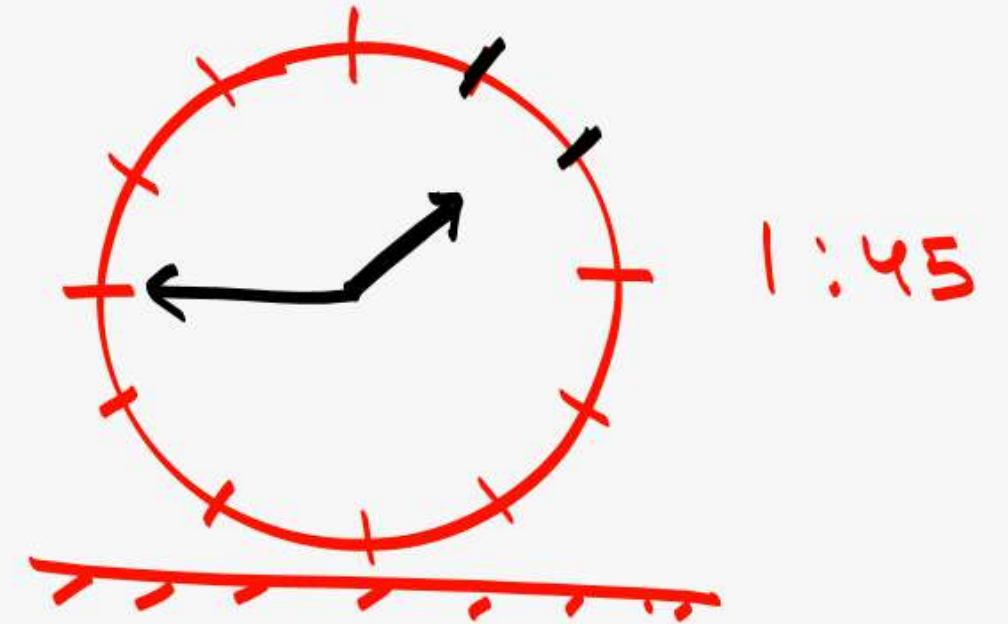
$$\begin{array}{r} \checkmark 5/17 : \overset{\times}{30}/90 \checkmark \\ 5 : 45 \\ - 1 : 45 \\ \hline 4 : 45 \end{array}$$

☒ (a) 4.45

(b) 5.15

(c) 6.30

(d) 3.25



QUESTION:- 56

What is real time if time in water image in 9.20?

9.20 में पानी की छवि में यदि समय हो तो वास्तविक समय क्या है?

✓ (a) 8.10

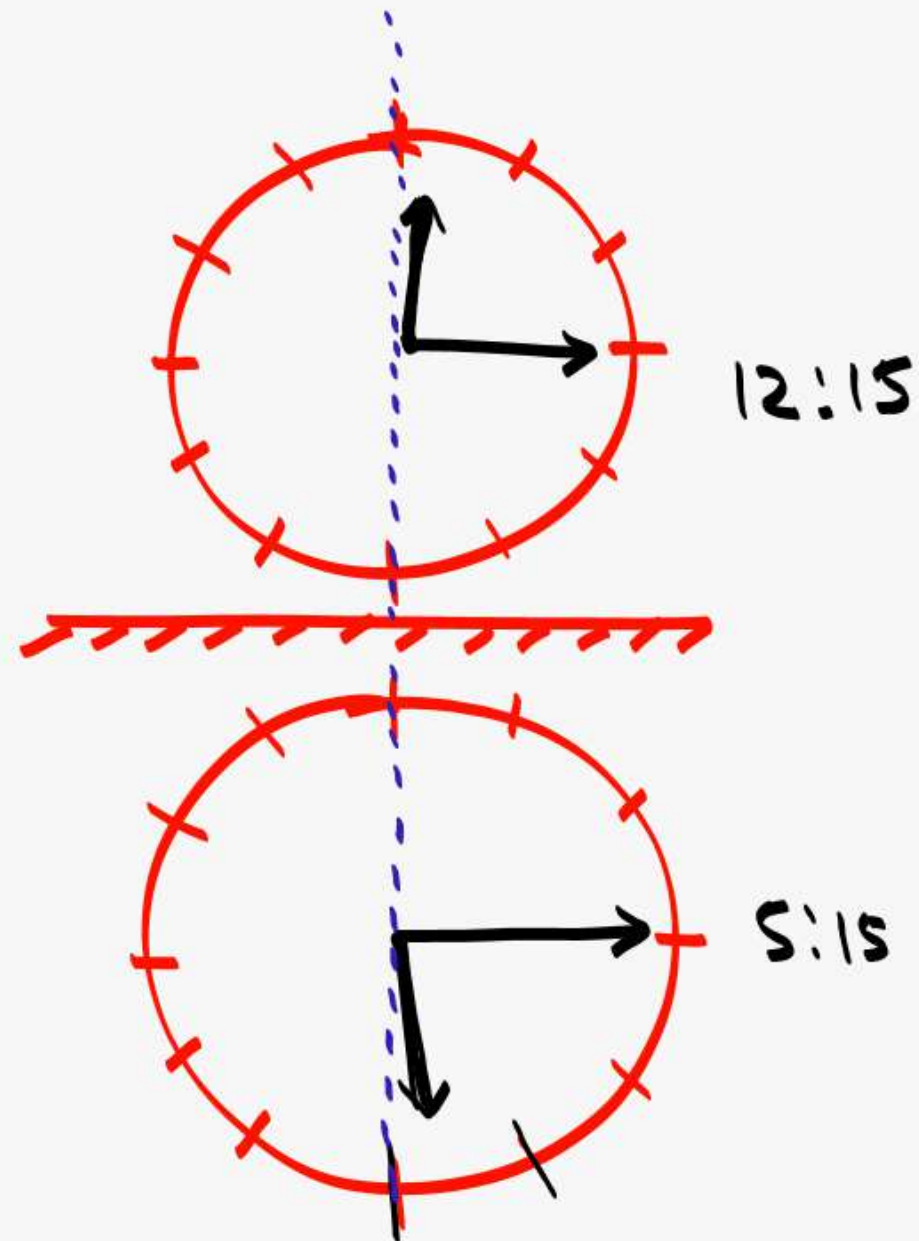
(b) 7.10

(c) 8.10

(d) 9.10

$$\begin{array}{r} \times \checkmark : \checkmark \\ 5/17 : 30/90 \\ 17 : 30 \\ - 9 : 20 \\ \hline 8 : 10 \end{array}$$

QUESTION:- 57



Find the water image time when the exact time shows in a clock was 12:15?

जल छवि का समय ज्ञात कीजिए जब घड़ी में सटीक समय 12:15 दिखाई देता है?

(a) 4:15

~~(b) 6:15~~

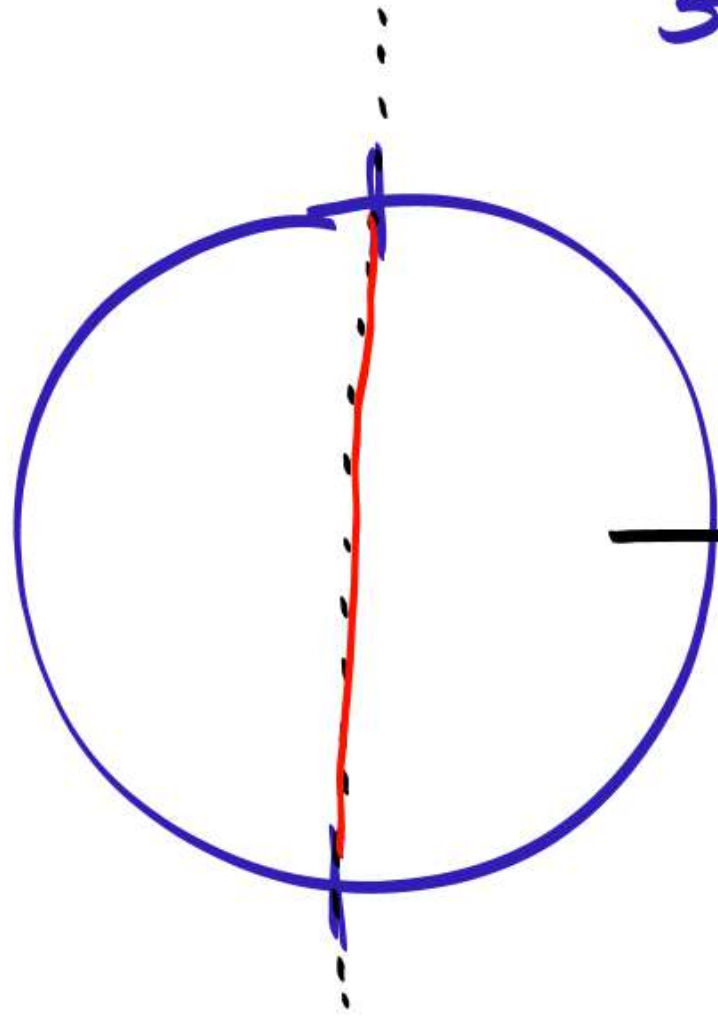
(c) 7:20

(d) 8:20

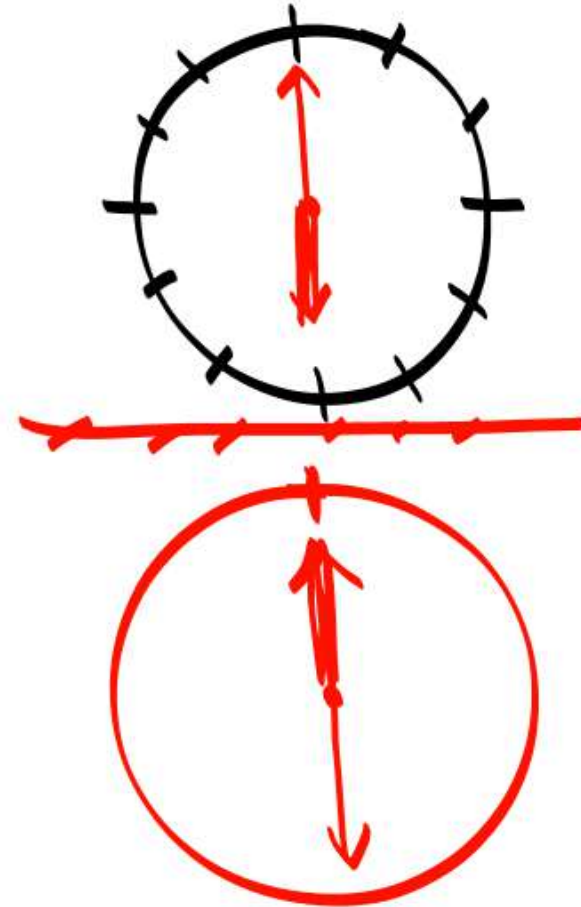
5:15 ✓

$$\begin{array}{r} \times \checkmark \checkmark \times \\ 5:17 : 30:10 \\ 17:30 \\ - 12:15 \\ \hline 5:15 \end{array}$$

અપવાદ જલ ઘર્વિ



જાબ ફુર્કે ઇસ રેરવા પર હોગી, ઇસાકી જાત
હિવે એક વાસ્તવિક સમય નહી
બતાયે



6:00

2:00

6:30,

5:30, 4:00