



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 5



Topic
Time

Worksheet on Time

1. Sophia took 105 minutes to complete her homework. She finished her homework at 18:47. What time did she start doing her homework?

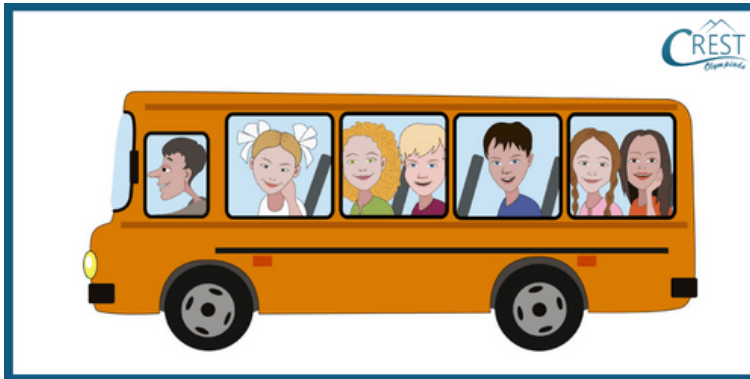


- a. 4:48 PM
b. 5:02 PM
c. 5:48 PM
d. 5:58 PM
2. Hockey's final match started at 7:14 PM and ended at 9:46 PM. There is a break for 10 minutes during the match. How many minutes did the game last?

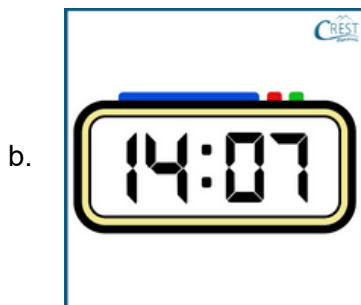
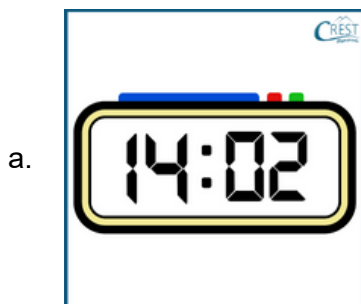


- a. 132 minutes
b. 142 minutes
c. 152 minutes
d. 162 minutes

3. A bus leaves for a picnic at 6:19 AM. It takes 3 hours and 47 minutes to reach the picnic spot. At what time will it reach the picnic spot?



- a. 9:06 AM
b. 9:56 AM
c. 10:06 AM
d. 10:56 AM
4. The clock given below shows the incorrect time in the afternoon. It is moving 1 hour 22 minutes slow. What will be the correct time?



c.



d.



5. An ant can eat a slice of watermelon in 9 minutes. How many milliseconds does it take to finish half of the slice?



- a. Two hundred seventy thousand milliseconds
- b. Two hundred seventy-four thousand milliseconds
- c. Five hundred forty thousand milliseconds
- d. Five hundred forty-four thousand milliseconds

Answer Key

1. b - 5:02 PM

Explanation: Sophia finished her homework at 18:47.

Time taken by Sophia to complete her homework = 105 minutes
= 60 minutes + 45 minutes
= 1 hour + 45 minutes

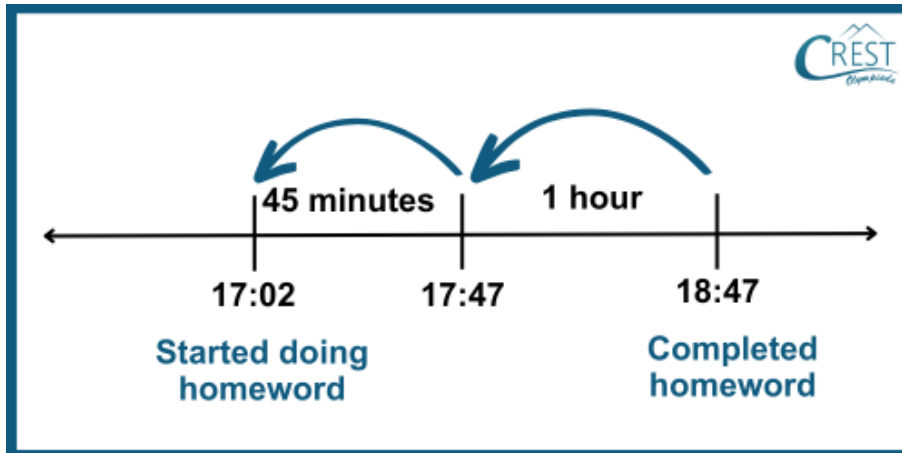
She start doing her homework = 18:47 – 115 minutes
= 18:47 – (1 hour + 45 minutes)
= 18:47 – 1 hour – 45 minutes
= (18:47 – 1 hour) – 45 minutes
= 17:47 – 45 minutes

$$\begin{aligned}
 &= 17:00 + 47 \text{ minutes} - 45 \text{ minutes} \\
 &= 17:00 + (47 \text{ minutes} - 45 \text{ minutes}) \\
 &= 17:00 + 2 \text{ minutes} \\
 &= 17:02
 \end{aligned}$$

Converting 17:02 into a 12-hour format:

17:02 = 5:02 PM

Time for the completion of the homework done by Sophia is shown as:



2. b - 142 minutes

Explanation: Time (in minutes) taken in Hockey's final match with break = (9:46 PM – 7:14 PM)

$$\begin{aligned}
 &= 2 \text{ hours} + 32 \text{ minutes} \\
 &= (2 \times 60) \text{ minutes} + 32 \text{ minutes} \\
 &= 120 \text{ minutes} + 32 \text{ minutes} \\
 &= 152 \text{ minutes}
 \end{aligned}$$

Time for break = 10 minutes

$$\begin{aligned}
 \text{Time taken in Hockey's final match without a break} &= 152 \text{ minutes} - 10 \text{ minutes} \\
 &= 142 \text{ minutes}
 \end{aligned}$$

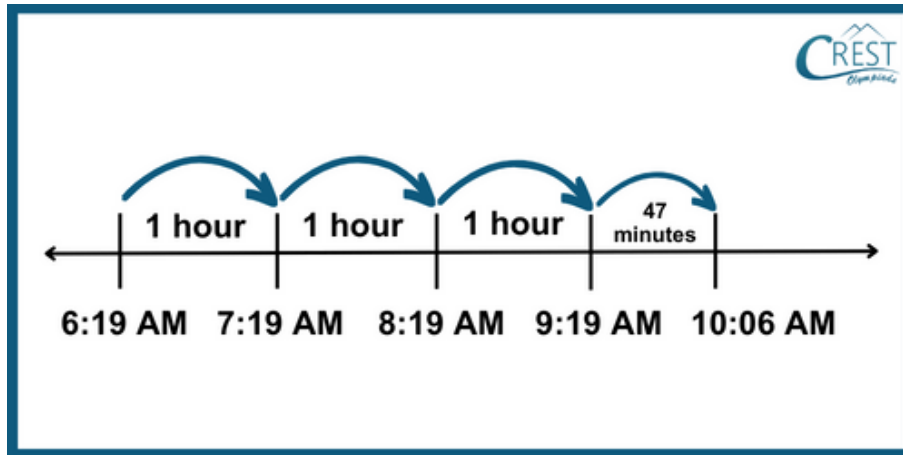
3. c - 10:06 AM

Explanation: Time at which a bus leaves for a picnic = 6:19 AM

Time taken to reach picnic spot = 3 hours + 47 minutes

$$\begin{aligned}
 \text{Time at which a bus reached the picnic spot} &= 6:19 \text{ AM} + 3 \text{ hours} + 47 \text{ minutes} \\
 &= 9:19 \text{ AM} + 47 \text{ minutes} \\
 &= 9:00 \text{ AM} + 19 \text{ minutes} + 47 \text{ minutes} \\
 &= 9:00 \text{ AM} + 66 \text{ minutes} \\
 &= 9:00 \text{ AM} + 60 \text{ minutes} + 6 \text{ minutes} \\
 &= 9:00 \text{ AM} + 1 \text{ hour} + 6 \text{ minutes} \\
 &= 10:00 \text{ AM} + 6 \text{ minutes} \\
 &= 10:06 \text{ AM}
 \end{aligned}$$

The picnic time is shown as:



4. d -



Explanation: Time shown on the clock (incorrect time) in the afternoon = 1:45 PM
Time on the clock is showing 1 hour 22 minutes slow.

Hence, the correct time in 12-hour format = 1:45 PM + 1 hour + 22 minutes
 $= 2:45 \text{ PM} + 22 \text{ minutes}$
 $= 2:00 \text{ PM} + 45 \text{ minutes} + 22 \text{ minutes}$
 $= 2:00 \text{ PM} + 67 \text{ minutes}$
 $= 2:00 \text{ PM} + 60 \text{ minutes} + 7 \text{ minutes}$
 $= 2:00 \text{ PM} + 1 \text{ hour} + 7 \text{ minutes}$
 $= 3:00 \text{ PM} + 7 \text{ minutes}$
 $= 3:07 \text{ PM}$

Correct time in 24 hours format = 3:07 PM + 12 hours
 $= 15:07$

5. a - Two hundred seventy thousand milliseconds

Explanation: Time taken by an ant to eat a slice of watermelon = 9 minutes
 $= (9 \times 60) \text{ seconds}$
 $= 540 \text{ seconds}$
 $= 540 \times 1000 \text{ milliseconds}$
 $= 540000 \text{ milliseconds}$

Time taken by an ant to eat half of a slice of watermelon = 540000 milliseconds \div 2
 $= 270000 \text{ milliseconds}$

Time taken by an ant to eat half of a slice of watermelon is two hundred seventy thousand milliseconds.

More Questions Coming Soon – Keep Learning!



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