

MATHS  
VIDEO-6

Q. A. ① Convert 8 hrs into min.

Solution:

∵ 1 hour = 60 minutes  
∵ 8 hours =  $60 \times 8$  minutes  
= 480 minutes Ans

Q. B. ② Convert 620 min into hrs and min. Solution

∵ 60 min = 1 hr  
∵ 620 min =  $620 \div 60$   
= 10 hrs 20 min  
Ans

Q → 10 hrs  
 $60 \overline{) 620}$   
- 600  
          
R → 20 min

Q. C. ① Add 4 hrs 32 min and 9 hrs 40 min

Solution

| Hours     | Minutes   |
|-----------|-----------|
| 4         | 32        |
| + 9       | 40        |
| <u>13</u> | <u>72</u> |
| + 1       | - 60      |
| <u>14</u> | <u>12</u> |

Ans:  
14 hrs 12 min

Q. C. ③ Add 12 hrs 45 min and 20 hrs 24 min

Solution:

| Hours     | Minutes   |
|-----------|-----------|
| 12        | 45        |
| + 20      | 24        |
| <u>32</u> | <u>69</u> |
| + 1       | - 60      |
| <u>33</u> | <u>9</u>  |

Ans: 33 hrs 9 min

Q. C. ⑤ Add 38 min 55 sec and 16 min 10 sec

Solution:

|               |               |
|---------------|---------------|
| Q. C. Minutes | Seconds       |
| ⑤ 38          | 55            |
| + 16          | 10            |
| <hr/>         |               |
| 54            | 60) 65 (1 min |
| + 1           | - 60          |
| <hr/>         |               |
| 55            | 5             |

Ans: 55 min 5 sec

Q. D. ① Subtract 5 hrs 15 min from 12 hrs

Solution:

|       |         |
|-------|---------|
| Hours | Minutes |
| ⑪     | ⑥⑦      |
| + 2   | 0 + 60  |
| - 5   | 15      |
| <hr/> |         |
| 6 hrs | 45 min  |

Ans

Q. D. ③ Subtract 19 hrs 20 min from 20 hrs. Solution

|               |         |
|---------------|---------|
| Hours         | Minutes |
| ⑲             | ⑥⑦      |
| <del>20</del> | 0 + 60  |
| - 19          | 20      |
| <hr/>         |         |
| 0             | 40      |

Ans: 40 minutes

Q. D. ⑤ Subtract 18 min 40 sec from 50 min 15 sec Solution

|               |         |
|---------------|---------|
| Minutes       | Seconds |
| ④⑨            | ⑦⑤      |
| <del>50</del> | 15 + 60 |
| - 18          | 40      |
| <hr/>         |         |
| 31            | 35      |

Ans: 31 min 35 sec

Q. E. Solution:

a) Time taken by the passenger train to cover the distance from Patna to Delhi = 12 hrs 25 min

b) Time taken by the Shatabdi Express to cover the same distance = 8 hrs 40 min

|       |         |
|-------|---------|
| Hours | Minutes |
| ⑪     | ⑧⑤      |
| - 2   | 25 + 60 |
| - 8   | 40      |
| <hr/> |         |
| 3     | 45      |

c) More time taken by the passenger train = 3 hrs 45 min Ans

3. 19 hours 20 minutes from 20 hours
  4. 10 minutes 25 seconds from 40 minutes 20 seconds.
  5. 18 minutes 40 seconds from 50 minutes 15 seconds.
- E. A passenger train from Patna to Delhi takes 12 hours 25 minutes. The Shatabdi Express takes 8 hours 40 minutes to cover the same distance. How much more time does the passenger train take than the Shatabdi Express?

## FUN WITH MATHS

1. A clock shows the correct time at 1 p.m. on 5th January. The clock loses 20 minutes a day. When will it next show the correct time?
2. I have three clocks in my room. One is 10 minutes fast, another is 20 minutes fast and the last one is 15 minutes slow. The clocks are shown below (not in the correct order). Observe these clocks and tell the correct time.



## MENTAL MATHS

1. 14 minutes 96 seconds = 15 minutes 36 seconds.
2. 4 hours 35 minutes 20 seconds = 3 hours 94 minutes 80 seconds.
3. 5 days 10 hours = 130 hours.
4. 15 minutes 35 seconds + 20 minutes 50 seconds = 36 minutes 25 seconds.
5. 10 hours 40 minutes + 7 hours 58 minutes = 18 hours 38 minutes
6. 4 years 7 months + 10 years 11 months = 15 years 6 months.
7. 7 weeks 2 days = 51 days.
8. 4 years 10 months = 58 months.
9. 86 months = 7 years 2 months.
10. 130 minutes = 2 hours 10 minutes.

## MATHS LAB ACTIVITY

**Objective :** To study calendar pattern.

**Materials Required :** A calendar, highlighter, paper and pen.

1. Choose any month from the calendar and highlight any square with 9 numbers as shown.

| M  | T  | W  | T  | F  | S  | S  |
|----|----|----|----|----|----|----|
|    |    |    | 1  | 2  | 3  | 4  |
| 5  | 6  | 7  | 8  | 9  | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 |    |    |