

Class: 4

Subject : Mathematics

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Chapter: Eleven

## Time

### Lecture no-02 ((Solution))

Note 2:

#### SOLUTION:

- (1) Solution: We know, 1 day = 24 hours.  
Now, 3 days =  $(24 \times 3)$  hours.  
=72 hours.

Ans: 72 hours.

- (2) Solution: We know, 1 week = 7 days.  
Again, We know, 1 day = 24 hours.  
7 days =  $(7 \times 24)$  hours.  
= 168 hours

Ans: 168 hours.

- (3) Solution: 9 weeks and 6 days =  $(9 \times 7)$  days + 6 days  
= 63 days + 6 days  
= 69 days

We know, 1 day = 24 hours  
69 days =  $(69 \times 24)$  hours  
= 1656 hours

Ans: 1656 hours.

We know, 1 week = 7 days  
9 weeks =  $(9 \times 7)$  = 63 days

#### 11.2 Exercise

##### 2. Express in days

- (1) Solution: we know, 24 hours = 1 day

$$1 \text{ hour} = \frac{1}{24} \text{ day} \quad \left| \text{R.w: } (1 \div 24) \right.$$

$$\text{Now, 48 hours} = \frac{1 \times 48^2}{24_1} \text{ days} \quad \left| \quad \text{R.W: } \begin{array}{r} 2 \\ \overline{24)48} \\ \underline{48} \\ 0 \end{array}$$

$$= 2 \text{ days} \quad \left| \quad 24 \times 1 = 24, \quad 24 \times 2 = 48$$

Ans: 2 days .

<b>48 hours = 2 days</b>
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(2) Solution: we know, 24 hours = 1 day

$$1 \text{ hour} = \frac{1}{24} \text{ day} \quad \left| \quad \text{R.w: } (1 \div 24)$$

$$\text{Now, 72 hours} = \frac{1 \times 72^3}{24_1} \text{ days} \quad \left| \quad \text{R.W: } \begin{array}{r} 3 \\ \overline{24)72} \\ \underline{72} \\ 0 \end{array}$$

$$= 3 \text{ days} \quad \left| \quad 24 \times 1 = 24, \quad 24 \times 2 = 48, \quad 24 \times 3 = 72$$

Ans: 3 days .

<b>72 hours = 3 days</b>
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(3) Solution: we know, 24 hours = 1 day

$$1 \text{ hour} = \frac{1}{24} \text{ day} \quad \left| \quad \text{R.w: } (1 \div 24)$$

$$\text{Now, 120 hours} = \frac{1 \times 120^5}{24_1} \text{ days} \quad \left| \quad \text{R.W: } \begin{array}{r} 5 \\ \overline{24)120} \\ \underline{120} \\ 0 \end{array}$$

$$= 5 \text{ days} \quad \left| \quad 24 \times 1 = 24, \quad 24 \times 2 = 48, \quad 24 \times 3 = 72, \right.$$

$$\left. 24 \times 4 = 96, \quad 24 \times 5 = 120$$

Ans: 5 days .

<b>120 hours = 5 days</b>
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(4) **Solution:** we know, 1 week = 7 days  
 2 weeks = (2 × 7) days  
 = 14 days

Ans: 14 days .

2 weeks = 14 days
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(5) **Solution:** we know, 1 week = 7 days  
 3 weeks = (3 × 7) days  
 = 21 days

Ans: 21 days .

3 weeks = 21 days
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(6) **Solution:** we know, 1 week = 7 days  
 4 weeks = (4 × 7) days  
 = 28 days

Ans: 28 days .

4 weeks = 28 days
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3. Add together and change them to hours and minutes.

**Solution:**

	minute	hour and minute
50 minutes+30 minutes	80 minutes	1 hour + 20 minutes
35 minutes + 35 minutes	70 minutes	1 hour + 10 minutes
60 minutes + 80 minutes	140 minutes	2 hours+ 20 minutes
90 minutes + 45 minutes	135 minutes	2 hours+ 15 minutes
120 minutes + 60 minutes	180 minutes	3 hours

(1) **Solution:** 50 minutes+30 minutes = 80 minutes

We know, 1hour =60 minutes.

So, 80 minutes= 60 minutes+20 minutes

=1 hour + 20 minutes

**Ans: 80 minutes and 1 hour + 20 minutes.**

**(2) Solution: 35 minutes+35 minutes = 70 minutes**

**We know, 1hour =60 minutes.**

**So, 70 minutes= 60 minutes+10 minutes**

**=1 hour + 10 minutes**

**Ans: 70 minutes and 1 hour + 10 minutes.**

**(3) Solution: 60 minutes+80 minutes = 140 minutes**

**We know, 1hour =60 minutes.**

**So, 140 minutes= 60 minutes+60 minutes + 20 minutes**

**= 1 hour + 1 hour + 20 minutes**

**= 2 hours+ 20 minutes**

**Ans: 140 minutes and 2 hours + 20 minutes.**

**(4) Solution: 90 minutes + 45 minutes = 135 minutes**

**We know, 1hour =60 minutes.**

**So, 135 minutes= 60 minutes+60 minutes + 15 minutes**

**= 1 hour + 1 hour + 15 minutes**

**= 2 hours+ 15 minutes**

**Ans: 135 minutes and 2 hours + 15 minutes.**

**(5) Solution: 120 minutes+60 minutes = 180 minutes**

**We know, 1hour =60 minutes.**

**So, 180 minutes= 60 minutes+60 minutes + 60 minutes**

**= 1 hour + 1 hour + 1 hour**

**= 3 hours**

**Ans: 180 minutes and 3 hours .**

