

Tender Heart High School, Sec-33B, Chandigarh

Class - V

Date - 02.12.2024

Subject - Mathematics

Teacher - Ms. Sushma

Chapter - 12 Money and Time

Exercise 12.4

A. Convert to hours and minutes.

1. 700 minutes.

$$1 \text{ hour} = 60 \text{ min}$$

$$= 700 \div 60$$

$$= 11 \text{ hours } 40 \text{ min}$$

$$\begin{array}{r} 11 \\ 60 \overline{) 700} \\ \underline{- 60} \downarrow \\ 100 \\ \underline{- 60} \\ 40 \end{array}$$

2. 1600 minutes

$$1 \text{ hour} = 60 \text{ min}$$

$$1600 \div 60$$

$$= 26 \text{ hours } 40 \text{ min.}$$

$$\begin{array}{r} 26 \\ 60 \overline{) 1600} \\ \underline{- 120} \downarrow \\ 400 \\ \underline{- 360} \\ 40 \end{array}$$

B. Convert to minutes and seconds.

1. 375 seconds.

$$1 \text{ min} = 60 \text{ sec}$$

$$375 \div 60 = 6 \text{ min } 15 \text{ sec.}$$

$$\begin{array}{r} 6 \\ 60 \overline{) 375} \\ \underline{- 360} \\ 15 \end{array}$$

2. 600 seconds

$$1 \text{ min} = 60 \text{ sec}$$

$$= 600 \div 60$$

$$= 10 \text{ min}$$

$$\begin{array}{r} 10 \\ 60 \overline{) 600} \\ \underline{- 600} \\ 00 \\ \underline{- 0} \\ 0 \end{array}$$

c. Convert to weeks and days.

1. 35 days

$$1 \text{ week} = 7 \text{ days}$$

$$= 35 \div 7$$

$$= 5 \text{ weeks}$$

2. 78 days.

$$= 78 \div 7$$

$$= 11 \text{ weeks } 1 \text{ day}$$

$$\begin{array}{r} 11 \\ 7 \overline{) 78} \\ \underline{- 70} \\ 08 \\ \underline{- 7} \\ 1 \end{array}$$

3. 245 days

$$= 245 \div 7$$

$$= 35 \text{ weeks}$$

$$\begin{array}{r} 35 \\ 7 \overline{) 245} \\ \underline{- 210} \\ 35 \\ \underline{- 35} \\ 0 \end{array}$$

d. Convert to days and hours.

1. 87 hours.

$$1 \text{ day} = 24 \text{ hours}$$

$$= 87 \div 24$$

$$= 3 \text{ days } 15 \text{ hours}$$

$$\begin{array}{r} 3 \\ 24 \overline{) 87} \\ \underline{- 72} \\ 15 \end{array}$$

2. 201 hours

$$= 201 \div 24$$

$$= 8 \text{ days } 9 \text{ hours}$$

$$\begin{array}{r} 8 \\ 24 \overline{) 201} \\ \underline{- 192} \\ 9 \end{array}$$

E. Convert to months and days.

1. 360 days

$$= 360 \div 30$$

$$= 12 \text{ months.}$$

$$1 \text{ month} = 30 \text{ days.}$$

$$\begin{array}{r} 12 \\ 30 \overline{) 360} \\ \underline{- 30} \\ 60 \\ \underline{- 60} \\ 0 \end{array}$$

2. 48 days.

$$= 48 \div 30$$

$$= 1 \text{ month } 18 \text{ days.}$$

$$\begin{array}{r} 1 \\ 30 \overline{) 48} \\ \underline{- 30} \\ 18 \end{array}$$

F. Convert to years and months.

1. 25 months.

$$1 \text{ year} = 12 \text{ months.}$$

$$= 25 \div 12$$

$$= 2 \text{ years } 1 \text{ month}$$

$$\begin{array}{r} 2 \\ 12 \overline{) 25} \\ \underline{- 24} \\ 01 \end{array}$$

2. 42 months.

$$1 \text{ year} = 12 \text{ months.}$$

$$= 42 \div 12$$

$$= 3 \text{ years } 6 \text{ months}$$

$$\begin{array}{r} 3 \\ 12 \overline{) 42} \\ \underline{- 36} \\ 06 \end{array}$$

3. 96 months.

$$= 96 \div 12$$

$$= 8 \text{ years}$$

$$\begin{array}{r} 8 \\ 12 \overline{) 96} \\ \underline{- 96} \\ 0 \end{array}$$

Exercise 12.5

Solve these story sums.

1. Jyoti read the newspaper for 120 min. How many hours is that?

Soln:- Jyoti read the newspaper for 120 min

$$= 120 \div 60$$

$$= 2 \text{ hours.}$$

So, Jyoti read the newspaper for 2 hours.

2. A farmer spends 1-hour 35 min to plough his field. Find the no. of minutes he spends in ploughing his field.

Soln:-> Time spend for ploughing = 1-hour 35 min

$$= 1 \times 60 + 35$$

$$= 60 + 35$$

$$= 95 \text{ min.}$$

So, a farmer spends 95 min in ploughing.

3. Riya worked for 2 years 2 months in company A and 36 months in company B. In which company did she work for a longer time?

Soln:-> Duration of work in company A = 2 years 2 months

$$= 2 \times 12 + 2$$

$$= 24 + 2$$

$$= 26 \text{ months.}$$

Duration of work in company B = 36 months.

So, It is clear that Riya worked for longer time in company B.

4. Atul attended painting classes for 138 days. How many months and days is that?

Ans: No. of days for painting classes = 138 days.

$$= 138 \div 30$$

$$= 4 \text{ months } 18 \text{ days.}$$

$$\begin{array}{r} 4 \\ 30 \overline{) 138} \\ \underline{- 120} \\ 18 \end{array}$$

So, Atul attended painting classes for 4 months 18 days.

Exercise 12.6.

A. Find the sum.

1. 4 h 40 min + 6 h 10 min = 10 hrs 50 min.

hours	min
4	40
+ 6	10
10	50

2. 5 h 45 min + 55 min.

hours	min
5	45
+ 0	55
5	100
	$\swarrow \searrow$ $60 + 40$ $\downarrow$ 1 hr 40 min.

= 5 hrs + 1 hr 40 min

= 6 hrs 40 min

3. $4 \text{ min } 42 \text{ sec} + 6 \text{ min } 29 \text{ sec}$

min	sec
4	42
+ 6	29
10	71
	60 + 11
	1 min 11 sec

$= 11 \text{ min } 11 \text{ sec}$

4. $2 \text{ h } 25 \text{ min} + 15 \text{ s} + 3 \text{ h } 50 \text{ min } 8 \text{ sec}$

h	min	sec
2	25	00
		15
+ 3	50	8
5	75	23
	60 + 15	
	1 hr 15 min	

$= 5 \text{ h} + 1 \text{ hr } 15 \text{ min } 23 \text{ sec}$

$= 6 \text{ hrs } 15 \text{ min } 23 \text{ sec}$

B. Find the difference.

1. $8 \text{ h } 50 \text{ min} - 6 \text{ h } 35 \text{ min} = 2 \text{ hr } 15 \text{ min}$

h	min
8	50
- 6	35
2	15

2. $10\text{ h } 20\text{ min} - 4\text{ h } 45\text{ min} = 5\text{ h } 35\text{ min}$

	h	min
	9	80
	10	20
-	4	45
	<u>5</u>	<u>35</u>

3. $10\text{ min } 20\text{ sec} - 7\text{ min } 47\text{ sec} = 2\text{ min } 33\text{ sec}$

	min	sec
	9	80
	10	20
-	7	47
	<u>2</u>	<u>33</u>

4. $15\text{ min } 22\text{ sec} - 6\text{ min } 44\text{ sec} = 8\text{ min } 38\text{ sec}$

	min	sec
	14	82
	15	22
-	6	44
	<u>8</u>	<u>38</u>

5. $11\text{ h } 10\text{ min } 15\text{ sec} - 5\text{ h } 15\text{ min } 20\text{ sec}$

	h	min	sec
	10	69	75
	11	10	15
-	5	15	20
	<u>5</u>	<u>54</u>	<u>55</u>