SNBP International & Senior Secondary School, Chikhali, Pune.
Affiliation No. 1130703
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NOTES (Term-2)

NAME:_____ DATE: _____
CLASS:____5__ DIV :_____ SUBJECT: MATH
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PRE ACTIVITY – Lets get started page no. 94

Exercise 2A

1. Convert the following into seconds.

Solution:

a. 12 minutes
1 minute = 60 seconds
12 minutes = 12 × 60 = 720 seconds

b. 38 minutes
1 minute = 60 seconds
38 minutes = 38 × 60 = 2280 seconds

c. 5 minutes 30 seconds
1 minutes = 60 seconds
5 minutes = 5 × 60 = 300 seconds
5 minutes 30 seconds = 300 + 30 = 330 seconds

d. 17 minutes
1 minute = 60 seconds
17 minutes = 17 × 60 = 1020 seconds

e. 4 hours
1 hours = 3600 seconds
4 hours = 4 × 3600 = 14,400 seconds

f. 8 hours
1 hours = 3600 seconds
8 hours = 8 × 3600 = 28,800 seconds

2. Convert the following into minutes.

Solution:

a. 120 seconds
We know, 60 seconds = 1 minute
So, to find minutes in 120 seconds, we will divide 120 by 60.
Thus, 120 seconds = 2 minutes

b. 360 seconds
We know, 60 seconds = 1 minute
So, to find minutes in 360 seconds, we will divide 360 by 60.
Thus, 360 seconds = 6 minutes

c. 840 seconds
We know, 60 seconds = 1 minute
So, to find minutes in 840 seconds, we will divide 840 by 60.
Thus, 840 seconds = 14 minutes

d. 8 hours
1 hour = 60 minutes
8 hours = 8 × 60 = 480 minutes

e. 6 hours 12 minutes

1 hour = 60 minute

6 hours = 6 × 60 = 360 minutes

6 hours 12 minutes = 360 + 12 = 372 minutes

f. 12 hours

1 hours = 60 minutes

12 hours = 12 × 60 = 720 minutes

3. Convert the following into minutes and seconds.

Solution:

a. 950 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 950 seconds, we will divide 950 by 60.

950 ÷ 60 = Quotient = 15; Remainder = 50

Hence, 950 seconds = 15 minutes 50 seconds

b. 105 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 105 seconds, we will divide 105 by 60.

105 ÷ 60 = Quotient = 1; Remainder = 45

Hence, 105 seconds = 1 minutes 45 seconds

c. 297 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 297 seconds, we will divide 297 by 60.

297 ÷ 60 = Quotient = 4; Remainder = 57

Hence, 297 seconds = 4 minutes 57 seconds

d. 450 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 450 seconds, we will divide 450 by 60.

450 ÷ 60 = Quotient = 7; Remainder = 30

Hence, 450 seconds = 7 minutes 30 seconds

e. 824 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 824 seconds, we will divide 824 by 60.

824 ÷ 60 = Quotient = 13; Remainder = 44

Hence, 824 seconds = 13 minutes 44 seconds

f. 128 seconds

We know, 60 seconds = 1 minute

So, to find minutes in 128 seconds, we will divide 128 by 60.

128 ÷ 60 = Quotient = 2; Remainder = 8

Hence, 128 seconds = 2 minutes 8 seconds

4. Aditi was painting for 180 minutes. How many hours did she paint for?

Solution:

1 hour = 60 minutes

To find hours in 180 minutes we need to divide 180 by 60

180 ÷ 60 = 3

Aditi painted for 3 hours.

Exercise 2B

1. Add the following.

Solution:

a. 7 h 15 min + 26 min

	h	min
	7	15
+		26
	7	41

7 h 15 min + 26 min = 7 h 41 min

b. 9 h 46 min + 1 h 37 min

	h	min
	9	46
+	1	37
	11	23

9 h 46 min + 1 h 37 min = 11 h 23 min

c. 6 min 30 s + 2 min 30 s

	min	s
	6	30
+	2	30
	9	00

6 min 30 s + 2 min 30 s = 9 min

d. 4 years 3 months + 5 years 11 months

	years	month
	4	03
+	5	11
	10	02

4 years 3 months + 5 years 11 months = 10 years 2 months

2. Subtract the following.

Solution:

a. 6 h 30 min – 2 h 50 min

	h	min
	6	30
–	2	50
	3	40

6 h 30 min – 2 h 50 min = 3 h 40 min

b. 40 min 30 s – 10 min 40 s

	min	s
	40	30
–	10	40
	29	50

40 min 30 s – 10 min 40 s = 29 min 50 sec

c. 7 h 20 s – 2 h 30 s

	h	min	s
	7	00	20
–	2	00	30
	4	59	50

7 h 20 s – 2 h 30 s = 4 h 59 min 50 sec

d. 5 years 3 months – 4 months

	years	months
	5	03
–	0	04
	4	11

5 years 3 months – 4 months = 4 years 11 months

3. Answer the following.

a. Chitra drove for 3 hours 10 minutes to reach Agra from Delhi. She then drove for another 2 hours 45 minutes to reach home. How much time did she takes to drive from Delhi to her home?

Solution:

Time from Delhi to her home = 3 h 10 min + 2 h 45 min

	h	min
	3	10
+	2	45
	5	55

Chitra drove 5 h 55 min from Delhi to her home.

b. Aamir's mother takes 1 hour 49 minutes to cook spaghetti and sauce. If she takes 51 minutes to prepare the sauce, find the time that she takes to prepare spaghetti.

Solution:

Time to prepare the spaghetti = 1 h 49 min – 51 min

	h	min
	1	49
–		51
		58

Aamir's mother takes 58 min to prepare the spaghetti.

c. Raju and Himanshu are reading the same book. Raju completed the book in 40 min 30 s, whereas Himanshu took 51 min 15 s to complete the book. How much more time did Himanshu take compared to Raju to complete the book?

Solution:

Time taken by Raju = 40 min 30 s
Time taken by Himanshu = 51 min 15 s
More time taken by Himanshu = 51 min 15 s – 40 min 30 s

	min	s
	51	15
–	40	30
	10	45

Himanshu took 10 min 45 sec more to complete the book than Raju.

d. Heena is 12 years 4 months old and her sister is 5 years 8 months old. How much older is Heena than her sister?

Solution:

Heena's age = 12 years 4 months

Heena's sister age = 5 years 8 months

Difference in Heena's and her sister's age
= 12 years 4 months – 5 years 8 months
= 6 years 8 months

Heena is 6 years 8 months older than her sister.

Exercise 2C

1. Write the finishing time using a.m. or p.m.

Solution:

a. 2 hours after 1:30 p.m.

Starting time + Elapsed time = Finishing time

1 : 30 p.m. + 2 h = 3 : 30 p.m.

b. 3 hours 45 min after 10:20 a.m.

Starting time + Elapsed time = Finishing time

10 : 20 a.m. + 3 h 45 min = 2 : 05 p.m.

c. 5 hours 10 min after 6 p.m.

Starting time + Elapsed time = Finishing time

6 p.m. + 5 h 10 min = 11 : 10 p.m.

d. 2 hours 10 min after 12 noon

12 : 00 p.m. + 2 h 10 min = 2 : 10 p.m.

2. Write the elapsed time in a.m. or p.m.

Solution:

a. 5:45 p.m. to 6:20 p.m.

Finishing time – Starting time = Elapsed time

6 : 20 p.m. – 5: 45 p.m. = 35 min

b. noon to 4:55 p.m.

Finishing time – Starting time = Elapsed time

4 : 55 p.m. – 12 : 00 p.m. = 4 h 55 min

c. 3:25 a.m. to 4:10 a.m.

Finishing time – Starting time = Elapsed time

4 : 10 a.m. – 3 : 25 a.m. = 45 min

d. 11:20 a.m. to 2:35 p.m.

Finishing time – Starting time = Elapsed time

2 : 35 p.m. – 11 : 20 a.m. = 3 h 15 min

3. Write the starting time using a.m. or p.m.

Solution:

a. 3 hours before 2:05 p.m.

Finishing time – Elapsed time = Starting time

2 : 05 p.m. – 3 h = 11 : 05 a.m.

b. 6 hours 10 min before 9:10 p.m.

Finishing time – Elapsed time = Starting time

9 : 10 p.m. – 6 h 10 min = 3 p.m.

c. 5 hours 15 min before 11 a.m.

Finishing time – Elapsed time = Starting time

11 a.m. – 5 h 15 min = 5 : 45 a.m.

d. 2 hours before 12:10 p.m.

Finishing time – Elapsed time = Starting time

12 : 10 p.m. – 2 = 10 : 10 a.m.

4. Answer the following.

a. An engineer starts his work at 8:15 a.m. He usually works for 8 hours. Today, he plans to leave his office half an hour early. What time does he plan to leave his office?

Solution:

The engineer starts work = 8 : 15 a.m.

Work duration of today = 8 h – 30 minutes = 7 h 30 min

Starting time + Elapsed time = Finishing time

8 : 15 a.m. + 7 h 30 min = 3 : 45 p.m.

Therefore, the engineer plans to leave his office at 3 : 45 p.m.

b. Mr. Khan takes 2 hours 40 minutes to drive from Delhi to Manesar. He arrives at Manesar at 2:25 p.m. What time did he start from Delh

Solution:

Finishing time – Elapsed time = Starting time

2 : 25 p.m. – 2 h 40 min = 11 : 45 a.m.

Therefore, he starts at 11 : 45 a.m. from Delhi.

c. Iqbal finished his cycle ride at 4:35 p.m. He cycled for 2 hours 20 minutes. What time did he begin cycling?

Solution:

Finishing time – Elapsed time = Starting time

4 : 35 p.m. – 2 h 20 min = 2 : 15 p.m.

Therefore, Iqbal begins cycling at 2 : 15 p.m.

d. Raghav went to Paris on 3rd August and stayed there for 21 days. On what date did he come back?

Solution:

Starting date + Duration = Finishing date

3rd August + 21 days = 24 August (Add 21 days to 3)

Therefore, Raghav comes back on 24th August.

e. A cartoon series ended on 31st October. It lasted for 25 days. On what date did it begin?

Solution:

Finishing date – Duration = Starting date

31st October – 25 = 6th October (Subtract 25 from 31)

Therefore, cartoon series begins on 6th October

Exercise 2D

1. Circle the temperature that matches the situation.

Solution:

a. Hot day 21 °C or (45 °C)

b. Ice cream 32 °C or (12 °C)

c. Pleasant day 42 °C or (25 °C)

d. Feverish body (40 °C) or 37 °C

2. Write the temperature for the following questions.

Solution:

a. 15 °C more than 20 °C

15 °C + 20 °C = 35 °C

b. 13 °C less than 45 °C

45 °C – 13 °C = 32 °C

c. 30 °C warmer than 12 °C

12 °C + 30 °C = 42 °C

d. 15 °C cooler than 41 °C

41 °C – 15 °C = 26 °C

3. When the temperature rises by 20 °C from 14°C, it becomes 34 °C.

Solution:

14 °C + 20 °C = 34 °C

4. Yesterday's temperature was 18 °C. Today it rose by 3 °C. What is the temperature today?

Solution:

Today's temperature = 18 °C + 3 °C = 21 °C

Therefore, the temperature today is 21 °C

5. **On Sunday, the highest temperature was 19°C. On Monday, it was 22°C. By how much has the temperature increased? Has it become cooler or hotter?**

Solution:

Change in temperature = 22 °C – 19 °C = 3 °C

The temperature has increased by 3 °C and it becomes hotter on Monday than Sunday.

POST ACTIVITY : Solve puzzle page no. 103

Teacher H.O.D Co-ordinator Principle