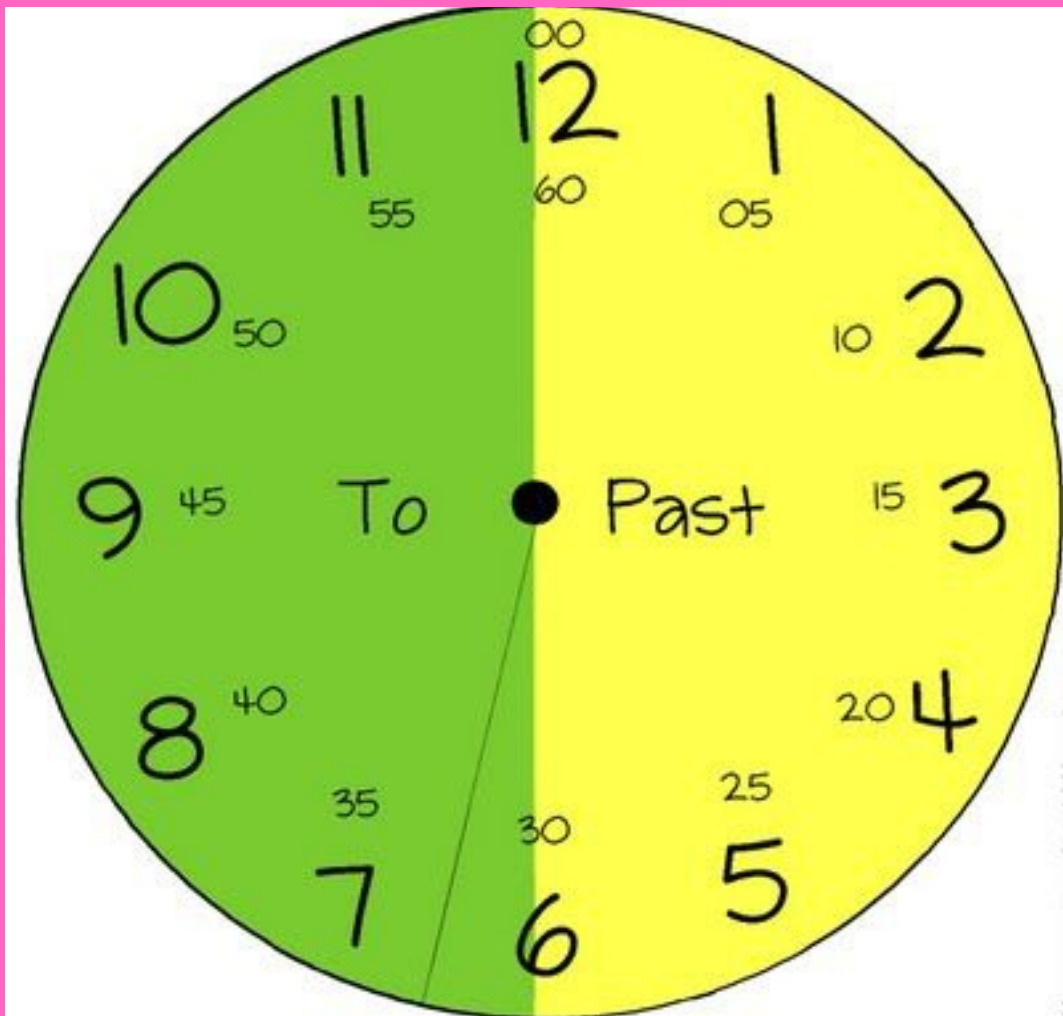# 13th class-notes Std 5(Maths)

Ch.8- TIME

Ch 8. Time

★ Points to remember -

1) A clock shows the time in hours, minutes and seconds.

2) A calender shows the time in days, weeks and months.

3) The relation between the different units of time is as follows -

$$1 \text{ day} = 24 \text{ hours}$$
$$1 \text{ hour} = 60 \text{ minutes}$$
$$1 \text{ minute} = 60 \text{ seconds}$$
$$1 \text{ hour} = 3600 \text{ seconds}$$
$$1 \text{ year} = 12 \text{ months}$$
$$1 \text{ year} = 365 \text{ days}$$
$$1 \text{ leap year} = 366 \text{ days}$$
$$1 \text{ month} = 30 \text{ days}$$
$$1 \text{ month} = 4 \text{ weeks}$$
$$1 \text{ week} = 7 \text{ days}$$

4) Every fourth year is a leap year.

5) February is the shortest month of the year.

Ex 8.1

Q1. The Christmas vacation .... days.

Sol^n Christmas vacation starts on = 25th December.
Christmas vacation ends on = 9th January

So,

No. of days in December = 7 days
(31-24)

No. of days in January = 9 days
(1st Jan — 9th Jan)

∴ Total no. of vacation days = (7+9) days
= 16 days

An. The Christmas vacation was of 16 days.

Q2 Rohan was in .... Paris?

Sol^n Rohan was in Paris from 4th Sept. to 15th Dec.

So,

No. of days in September = 27 days
(4th — 30th)

No. of days in October = 31 days
No. of days in November = 30 days
No. of days in December = 15 days
(1st to 15th)

∴ Total no. of days = (27+31+30+15) days
= 103 days

$$\begin{array}{r} 27 \\ 31 \\ 30 \\ +15 \\ \hline 103 \end{array}$$

An. Rohan was in Paris for 103 days.

Q3 a) How many . . . . . . Republic Day?

Ans. Christmas is celebrated on 25th December,
Republic Day is celebrated on 26th January.

So, No. of days in December = 6 days
(31-25)
No. of days in January = 25 days
(1st to 25th)

∴ Total no. of days = (6+25) days
= 31 days

Ans: Republic Day is celebrated after 31 days

b) How many days before . . . . . . Independence . . .

Ans. Independence Day is celebrated on 15th August
Christmas is celebrated on 25th December

So, No. of days in August = 16 days
(31-15)
No. of days in September = 30 days
No. of days in October = 31 days
No. of days in November = 30 days
No. of days in December = 24 days
(1st to 24th)

∴ Total no. of days = (16+30+31+30+24) days
= 131 days

Ans: Independence Day is celebrated 131 days
before christmas.

Q5. At Priya's school . . . . . — . . . classes be held ?

Sol^n No. of days in the month of May = 21 days
(31 – 10)
No. of days in the month of June = 30 days
No. of days in the month of July = 14 days
(1st to 14th)

∴ Total no of days classes will be = (21 + 30 + 14) days
held = 65 days

Ans: The dance classes will be held for 65 days.

Q6. Anuj joined . . . . . — . . . the last class

Sol^n Anuj joined swimming classes on = 15th May
No. of days in May = 17 days
(31 – 14)
No of days in June = 28 days
(45 – 17 = 28)

∴ The last class for Anuj will be on 28th June.

Ex 8.2

B. Write each time ....

1) 11:10 am = 11:10 hours

2) 12:00 noon = 12:00 hours

3) 12:00 midnight = 24:00 hours
   or 00:00 hours

4) 6:30 pm = 18:30 hours   6:30 + 12:00
                                  = 18:30

5) 3:45 am = 3:45 hours

6) 11:45 pm = 23:45 hours   11:45 + 12:00
                                  = 23:45

7) 3:20 am = 3:20 hours

8) 9:15 pm = 21:15 hours   9:15 + 12:00
                                  = 21:15

9) 4:00 pm = 16:00 hours   4:00 + 12:00
                                  = 16:00

10) 12:50 pm = 12:50 hours

13) 10:45 pm = 22:45 hours   10:45 + 12:00
                                  = 22:45

Ex 8.3

A. Find the time intervals.

1) 4:45 am to 6:20 am

Soln 4:45 am = 4 hours 45 minutes

6:20 am = 6 hours 20 minutes

∴ Time interval = 1 hour 35 min

$$
\begin{array}{cc}
\text{hours} & \text{minutes} \\
\overset{5}{\cancel{6}} & \overset{80}{\cancel{20}} \\
- \quad 4 & 45 \\
\hline
1 & 35
\end{array}
$$

$$\left[\begin{array}{l} \because 1\,hr = 60\,min \\ \therefore 60\,min + 20\,min \\ = 80\,min \end{array} \right]$$

- Write hours and minutes according to 24-hr clock format.
- Find the difference between the given time

2) 7:45 pm to 11:00 pm

Soln 7:45 pm = 19 hours 45 min

11:00 pm = 23 hours 00 min

∴ Time interval = 3 hours 15 min.

7:45 pm = 19:45 hrs

11:00 pm = 23 hrs

$$
\begin{array}{cc}
\text{hour} & \text{min} \\
\overset{22}{\cancel{23}} & \overset{60}{\cancel{00}} \\
- 19 & 45 \\
\hline
03 & 15
\end{array}
$$

∵ 1 hr = 60 min

∴ 60 min + 00 min

= 60 min

3) 9:05 am to 1:10 pm   1:10 pm = 13:10 hrs

Soln 9:05 am = 9 hours 05 minutes
      1:10 pm = 13 hours 10 minutes

                                                     hour   min
      ∴ Time interval = 4 hrs 05 min   13   10
                                                    −09   05
                                                     04   05

4) 3:40 pm to 12:00 midnight   3:40 pm = 15:40 hrs
                                                     12:00 midnight = 24:00 hrs
Soln 3:40 pm = 15 hours 40 minutes   ∴ 1 hr = 60 min
      12:00 midnight = 24 hrs 00 min.   ∴ 60 min + 00 min
                                                        = 60 min

                                                     hr   min
                                                     23   60
      ∴ Time interval = 8 hrs 20 min.   2̶4̶   0̶0̶
                                                    −15   40
                                                     08   20

      _____

B. Find the time.

1) 3 hours 30 minutes after 5:30 am

Soln 5:30 am $\xrightarrow{+3\ hrs}$ 8:30 am $\xrightarrow{+30\ min}$ 8:60 am

                                                  = 9:00 am

      Ans: The time will be 9:00 am

2) 4 hours 15 minutes after 9:30 am

Soln 9:30 am $\xrightarrow{+4\ hrs}$ 1:30 pm $\xrightarrow{+15\ min}$ 1:45 pm
      Ans: The time will be 1:45 pm

3) 5 hours before 7:15 am

Soln: 7:15 am $\xrightarrow{-5\,hrs}$ 2:15 am

Ans: The time was 2:15 am

4) 12 hours before 6:30 pm

Soln: 6:30 pm $\xrightarrow{-6\,hrs}$ 12:30 pm $\xrightarrow{-6\,hrs}$ 6:30 am

Ans: The time was 6:30 am

5) 2 hours 40 minutes after 10:30 pm

Soln: 10:30 pm $\xrightarrow{+2\,hrs}$ 12:30 am $\xrightarrow{+40\,min}$ 12:70 = 01:10 am

Ans: The time will be 01:10 am

6) 3 hours 50 minutes, before 1:45 am

Soln: 1:45 am $\xrightarrow{-3\,hrs}$ 10:45 pm $\xrightarrow{-45\,min}$ 10:00 pm $\xrightarrow{-5\,min}$ 9:55 pm

Ans: The time was 9:55 pm

Ex 8.4

Q1. A train leaves ... ... train journey?

Sol^n Train leaves Agra = 6:10 pm = 18:10 hours
Train reaches Delhi = 10:35 pm = 22:35 hours
∴ Time interval = 4 hr 25 min

hrs	min
22	35
−18	10
04	25

Ans- The duration of the
train journey is 4 hrs 25 min

Q4. A tourist bus ... ... reach Jaipur?

Sol^n Journey starts at = 7:00 pm
Duration of the journey = 5 hr 45 min
∴ The time after 5 hr 45 min =

$$7:00 pm \xrightarrow{+5 hr} 12 \text{ midnight} \xrightarrow{+45 min} 12:45 am$$

Ans: The tourist bus reaches Jaipur at 12:45 am

Q6 The Independence Day ... ... it begin?

Sol^n Independence Day programme got over at = 10:15 am
Duration of the programme = 1 hr 30 min
∴ The time before 1 hr 30 min =

$$10:15 am \xrightarrow{-1 hr} 9:15 am \xrightarrow{-15 min} 9:00 am \xrightarrow{-15 min} 8:45 am$$

Ans: The Independence Day programme began
at 8:45 am.

Ex 8.5

A. Find the sum.

1) 3 years 8 months + 2 years 5 months

Sol⁻

years	months
3	8
+ 2	5
5	13

∵ 12 months = 1 year
∴ 13 months = 1 year 1 month

So, 5 years + 13 months
= 5 years + 1 year + 1 month
Ans: 6 years 1 months

2)

weeks	days	hours
2	4	23
5	8	14
1	6	12
+ 0	3	16
8	24	65

∵ 24 hrs = 1 day
7 days = 1 week
∴ 65 hours
= 2 days 17 hrs
24 days = 3 weeks
3 days

Now, 8 weeks + 24 days + 65 hours
= 8 weeks + 3 weeks + 3 days + 2 days + 17 hours
= 11 weeks + 5 days + 17 hours

Ans: 11 weeks 5 days 17 hours

3)

hr	min	sec
5	21	32
4	19	21
0	42	39
+ 0	00	48
9	82	140

∵ 60 sec = 1 min
60 min = 1 hr
∴ 140 sec = 2 min
20 sec
82 min = 1 hour
22 min

Now,

9 hr + 82 min + 140 sec

= 9 hr + 1 hr + 22 min + 2 min + 20 sec

= 10 hr + 24 min + 20 sec

Ans: 10 hours 24 minutes 20 seconds.

4)

years	months	weeks
11	07	3
14	05	2
05	11	1
+ 01	06	2
31	29	8

∵ 4 weeks = 1 month
12 months = 1 year
∴ 8 weeks = 2 months
29 months = 2 years
5 months

Now,

31 years + 29 months + 8 weeks

= 31 years + 2 years + 5 months + 2 months

= 33 years + 7 months

Ans: 33 years 7 months.

B. Find the difference.

1)
hr	min	sec
	(49)	(95)
8	5̶0̶	35
− 6	35	50
2	14	45

∵ 1 min = 60 sec
⇒ 35 + 60 = 95 sec

∴ Ans → 2 hours 14 minutes 45 seconds.

2)
years	months	weeks
	(5)	(8)
8	6̶	4
− 2	4	5
6	1	3

∵ 1 month = 4 weeks
⇒ 4 + 4 = 8 weeks

∴ Ans → 6 years 1 month 3 weeks.

3)
months	weeks	days
(10)	(6)	(22)
1̶1̶	2̶	1̶5̶
3̶	15	
− 05	6	20
05	0	02

∵ 1 week = 7 days
⇒ 15 + 7 = 22 day
1 month = 4 weeks
⇒ 2 + 4 = 6 week

∴ Ans → 5 months 0 weeks 2 days.

4)
hr	min	sec
(6)	(64)	(70)
	0̶4̶	
7	0̶5̶	1̶0̶
− 5	45	20
1	19	50

∵ 1 min = 60 sec
⇒ 10 + 60 = 70 sec
1 hr = 60 min
⇒ 4 + 60 = 64 min

∴ Ans → 1 hour 19 minutes 50 seconds.

5)

weeks	days	hours
②	⑧	㊴
3	2	15
− 2	6	18
0	2	28

∵ 1 day = 24 hrs
⇒ 15 + 24 = 39 hrs
1 week = 7 days
⇒ 1 + 7 = 8 days

∴ Ans → 0 weeks 2 days 28 hours
or, 0 weeks 3 days 4 hours   (∵ 24 hrs = 1 day)

Ex 8.6

Q1 Ritesh took . . . . By how much?

Sol^n Time taken by Ritesh = 1 hr 25 min 30 sec
Time taken by Manoj = 1 hr 45 min 40 sec
∵ 1 hr 25 min 30 sec < 1 hr 45 min 40 sec
∴ Difference = 20 min 10 sec

hr	min	sec
1	45	40
−1	25	30
0	20	10

Ans: Ritesh ran faster, took
20 minutes 10 seconds less time
than Manoj.

Q2 My mother's   father's age

Solⁿ My mother's age = 35 years 7 months
Father is older than mother by
= 3 years 8 months
∴ Father's age = 38 years + 15 months
= 38 years + 1 year + 3 months
= 39 years 3 months

year	month
35	7
+03	8
38	15

∵ 12 months = 1 yr

⇒ 15 months = 1 year 3 month

An: My father's age is 39 years 3 months.

___

Q3. The Great Indian   the cities ?

Solⁿ Circus ran in Kochi = 4 months 3 weeks 4 days
Circus ran in Chennai = 5 months 2 weeks 6 days

∴ Circus ran in both the
cities for = 9 month + 5 week + 10 days
= 9 month + 1 week + 1 month + 1 week
+ 3 days
= 10 months + 2 weeks + 3 days

month	week	day
4	3	4
+ 5	2	6
9	5	10

∵ 7 days = 1 week
⇒ 10 days = 1 week 3 days

4 weeks = 1 month
⇒ 5 weeks = 1 month 1 week

An: The Great Indian Circus ran
for 10 months 2 weeks and 3
days in both the cities.

___

Ex 8.7

A. Multiply:

1) 7 weeks 3 days by 6.

Solⁿ

weeks	day
7	3
×	6
42	18

∵ 7 days = 1 week
so, 18 days = 2 weeks + 4 days

Now, 42 weeks + 18 days
= 42 weeks + 2 weeks + 4 days

Ans:- 44 weeks 4 day

'OR'

∵ 1 week = 7 days
So, 7 weeks = 7×7 = 49 days
Now,
7 weeks 3 days = 49 days + 3 days = 52 days

52 days × 6 = 312 days

∴ 312 days = 312 ÷ 7
= 44 weeks 4 days

* can apply any 1 method.

52
×6
312

44
7)312
-28↓
32
28
4

2) 5 weeks 2 days 15 hours by 9

Solⁿ ∵ 1 week = 7 days
     1 day = 24 hours

So,
  5 weeks + 2 days + 15 hours
= (5×7×24) hours + (2×24) hours + 15 hours ∵ 24 hrs = 1 day
= 840 hrs + 168 hrs + 15 hrs
= 1023 hrs

Now,
  1023 hrs × 9 = 9207 hrs

9207 hrs ÷ 24 = 383 days 15 hrs
383 days ÷ 7 = 54 week 5 days

∴ 5 weeks 2 days 15 hrs × 9
= 54 weeks 5 days 15 hours

$$
\begin{array}{r}
1023 \\
\times\ 9 \\
\hline
9207
\end{array}
$$

$$
\begin{array}{r}
383 \\
24\overline{)9207} \\
-72\downarrow\ \\
\hline
200 \\
-192\downarrow \\
\hline
0087 \\
-72 \\
\hline
15
\end{array}
$$

∵ 7 days = 1 week

$$
\begin{array}{r}
\quad\quad 5 \\
7)383(54 \\
-35\downarrow \\
\hline
033 \\
-28 \\
\hline
05
\end{array}
$$

3) 6 hours 9 minutes 25 seconds by 8

Solⁿ ∵ 1 hr = 60 min
    1 min = 60 sec

So,
  6 hours + 9 minutes + 25 seconds
= (6×60×60) sec + (9×60) sec + 25 sec
= 21600 sec + 540 sec + 25 sec
= 22,165 sec

Now,
  22,165 sec × 8 = 1,77,320 sec

$$
\begin{array}{r}
22165 \\
\times\ 8 \\
\hline
177320
\end{array}
$$

177320 sec = 177320 sec ÷ 60

= 2955 min 20 sec

2955 min ← = 2955 ÷ 60

= 49 hr 15 min

∵ 60 sec = 1 min

$$60\overline{)177320}(2955$$
$$\underline{-120}↓$$
573
$$\underline{-540}↓$$
0332
$$\underline{-300}↓$$
0 320
$$\underline{-300}$$
20

∴ 6 hr 9 min 25 sec × 8

= 49 hours 15 minutes 20 seconds

∵ 60 min = 1 hr

$$60\overline{)2955}(49$$
$$\underline{-240}↓$$
0 555
$$\underline{-540}$$
015

---

4) 22 hours 44 mins 36 seconds by 3

Soln   ∵ 1 hr = 60 min

1 min = 60 sec.

So,

22 hours + 44 mins + 36 sec

= (22×60×60) sec + (44×60) sec + 36 sec

= 79,200 sec + 2640 sec + 36 sec

= 81,876 sec

81876
× 3
245628

Now,   81876 sec × 3 = 2,45,628 sec

∵ 60 sec = 1 min

$$60\overline{)245628}(4093$$
$$\underline{-240}↓$$
0056 ↓
$$\underline{-00}↓$$
562
$$\underline{-540}$$
0228
$$\underline{-180}$$

245628 sec = 245628 ÷ 60

= 4093 min 48 sec

4093 min ← = 4093 ÷ 60

= 68 hr 13 min

∴ 22 hrs 44 min 36 sec × 3
= 68 hrs 13 minutes 48 seconds.

∵ 60 min = 1 hr

```
        68
60) 4093
    -360↓
    0493
    -480
    013
```

B. Divide.

1) 10 weeks 5 days by 3

Soln ∵ 1 week = 7 days

So, 10 weeks 5 days = 10 weeks + 5 days
            = (10×7) days + 5 days
            = 70 days + 5 days
            = 75 days

Now,

   75 days ÷ 3 = 25 days

∴ 10 weeks 5 days ÷ 3
= 3 weeks 4 days

```
      25
   3) 75
     -6↓
      15
     -15
      00
```

∵ 7 days = 1 week

```
      3
   7) 25
     -21
      04
```

2) 25 weeks 6 days 6 hours by 6

Soln ∵ 1 week = 7 days
        1 week = 24 hours

So,

   25 weeks + 6 days + 6 hours
= (25 × 7 × 24) hours + (6×24) hours + 6 hours
= 4200 hours + 144 hours + 6 hours
= 4350 hours

Now,

   4350 hours ÷ 6 = 725 hours

```
        725
   6) 4350
     -42↓
      015
      -12↓
      030
      -30
       00
```

∵ 24 hrs = 1 day

```
        30
   24) 725
      -72↓
       005
       -0
        5
```

725 hours = 725 hr ÷ 24

        = 30 days 5 hours

30 days = 30 days ÷ 7

        = 4 weeks 2 days

∴ 7 days = 1 week

$$7 \overline{)30} (4$$
$$\underline{-28}$$
$$02$$

∴ 25 weeks 6 days 6 hours ÷ 6

= 4 weeks 2 days 5 hours

3) 90 hours 45 minutes by 15

Sol^n ∵ 1 hour = 60 minutes

So,

90 hours 45 min = (90 × 60) min + 45 min

        = 5400 min + 45 min

        = 5445 min

Now,

5445 mis ÷ 15 = 363 min

363 min = 363 min ÷ 60

      = 6 hrs 3 minutes

$$363$$
$$15 \overline{)5445}$$
$$\underline{-45 \downarrow}$$
$$094$$
$$\underline{-90 \downarrow}$$
$$045$$
$$\underline{-45}$$
$$00$$

∵ 60 min = 1 hr

$$60 \overline{)363} (6$$
$$\underline{-360}$$
$$003$$

∴ 90 hours 45 minutes ÷ 15

= 6 hours 3 minutes

4) 36 hours 9 minutes 24 seconds by 4

Soln   ∵ 1 hour = 60 min
        1 min = 60 sec

So,
        36 hrs + 9 min + 24 sec
      = (36×60×60) sec + (9×60) sec + 24 sec
      = 1,29,600 sec + 540 sec + 24 sec
      = 1,30,164 sec

Now,
        130164 sec ÷ 4 = 32541 sec

        32541 sec = 32541 sec ÷ 60
                  = 542 min 21 sec
        542 min = 542 min ÷ 60
                = 9 hrs 2 min

        ∴ 36 hrs 9 min 24 sec ÷ 4
        = 9 hours 2 minutes 21 seconds.

$$\begin{array}{r} 32541 \\ \hline 4)\,130164 \\ -12\downarrow\quad \\ \hline 010\quad \\ -8\downarrow\quad \\ \hline 21\quad \\ -20\downarrow\quad \\ \hline 016\quad \\ -16\downarrow\quad \\ \hline 004\quad \\ -4\quad \\ \hline 0\quad \end{array}$$

∴ 60 sec = 1 min

$$\begin{array}{r} 60)\,32541\,(54\mathellipsis \\ -300\downarrow\quad \\ \hline 0254\quad \\ -240\downarrow\quad \\ \hline 0141\quad \\ -120\quad \\ \hline 021\quad \end{array}$$

∴ 60 min = 1 hr

$$\begin{array}{r} 60)\,542\,(9 \\ -540\quad \\ \hline 002\quad \end{array}$$

Book work

Do it in the book.

A. Write each time in 12-hour clock.

1. Train no. 12723 departs from Nagpur at 15:55 hours. It will arrive at Bhopal at 22:00 hours. 10:00 pm (22:00 − 12:00 = 10:00)

2. A flight departs from New Delhi at 13:35 hours. It will arrive at the Chennai Airport at 17:55 hours. 5:55 pm (17:55 − 12:00 = 5:55)

3. The Laughter Show on TV starts at 20:35 hours. 8:35 pm (20:35 − 12:00 = 8:35)

4. The ODI cricket match between India and Australia starts at 10:10 hours. 10:10 am

5. Flight 242 for Bhubaneshwar departs at 13:15 hours. 1:15 pm (13:15 − 12:00 = 1:15)

6. Maria's train to Mumbai leaves at 19:00 hours. 7:00 pm (19:00 − 12:00)

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Mental Arithmetic Book

Exercise 95

Solve the following problems.

a. Take away the sum of 89 and 99 from 1000.
$$89 + 99 = 188$$
812 (1000 − 188)

b. $\frac{63}{8} \div 7 = \boxed{\frac{9}{8}}$ $\left(\frac{63}{8} \times \frac{1}{7}\right)$

c. Find the HCF of 34 and 85. 17

d. $3\frac{1}{2} + 4\frac{1}{4} + \frac{1}{3} = \boxed{8\frac{1}{12}}$ $\left(\frac{7}{2} + \frac{17}{4} + \frac{1}{3} = \frac{42 + 51 + 4}{12} = \frac{97}{12}\right)$

e. How many scores are there in 15 dozens? 9 $\left(\begin{array}{l} \text{1 dozen} = 12 \quad \text{1 score} = 20 \\ \text{15 dozen} = 180 \quad \therefore 180 \div 20 = 9\end{array}\right)$

f. Largest 5-digit numeral ending in 5. 99995

g. $\frac{1}{6} \div 2 = \boxed{\frac{1}{12}}$ $\left(\frac{1}{6} \times \frac{1}{2}\right)$

h. If 1 bag holds $\frac{3}{8}$ kg of sweets, how much will 8 bags hold? 3 kg $\left(\frac{3}{8} \times 8\right)$

i. Put < or >: 1.08 < 1.10

j. Find the product of all the even numbers between 5 and 9. 48 (even nos = 6 × 8)

• For Rough Work •

34)85(2
−68

Date : .....17..) 34(2
                   −34

Marks .... Sign. ....

105

Solve the following problems.

a. $\frac{3}{4}$ metre of cloth costs ₹ 180. Find the cost of 1 metre cloth. ₹ ☐

b. 14 lakhs + 9 thousands + 8 = $\boxed{14,09,008}$

c. $\overset{10,000}{20 \times 500}$ = 1000 + $\boxed{9000}$ $\left(10,000-1000\right)$

d. $(\overline{240 \div 80})^{3} \times 16 = \boxed{48}$

e. 5 millions + 4 hundreds + 5 = $\boxed{5,000,405}$

f. $\frac{1}{3} \overset{21}{\text{of}} 63 + \frac{1}{4} \overset{22}{\text{of}} 88 = \boxed{43}$ $(21+22)$

g. Area of a room measuring 19 metres by 12 metres is $\boxed{228}$ m². $A = l \times b$
$= (19 \times 12)$

h. Write the prime factors of 512. $\boxed{2}$

i. $\boxed{36} = (\overset{24}{3 \times 8}) + (\overset{12}{\frac{2}{3} \text{ of } 18})$ $(24+12)$

j. A train took 8 hours to cover 320 km. How long will it take to cover 120 km? $\boxed{3}$ h

—— For Rough Work ——

h)
```
2 | 512
2 | 256
2 | 128
2 |  64
       32
```

```
2 | 32
2 | 16
2 |  8
2 |  4
2 |  2
```

j) 320km → 8
1 km = $\frac{8}{320}$

$\frac{8}{320} \times 120$

Date : ....   Marks .... Sign. ....

106

Fill in the blank boxes.

a. Place value of 5 in 130.05 is $\boxed{0.05}$.

b. Find the length of a rectangle, whose perimeter is 42 cm and the breadth is 8 cm. $\boxed{13 \text{ cm}}$

c. $\dfrac{11}{\boxed{7}} \leftrightarrow \dfrac{77}{133}$ $\left[\begin{array}{l} \therefore 77 \div 11 = 7 \\ \text{or } 77 \div 7 = 11 \\ \therefore 133 \div 7 = 19 \end{array}\right]$

d. $3.39 \div 1000 = \boxed{0.00339}$

e. Put < or >: $0.08 \;\boxed{<}\; 0.80$

f. $2.05 + 6.92 = \boxed{8.97}$

g. A score of pencils costs ₹ 60. What will 8 pencils cost? ₹ $\boxed{24}$ $\left[\begin{array}{l} \because 1 \text{ score} = 20 \\ ₹\,3 \times 8 = ₹24 \end{array}\right]$

h. $5\dfrac{1}{5} - 2\dfrac{3}{5} = \boxed{13/5}$ $\left(\dfrac{26}{5} - \dfrac{13}{5} = \dfrac{26-13}{5} = \dfrac{13}{5}\right)$

i. $(110 + 18 - 16) \div 14 = \boxed{8}$ $\left(112 \div 14\right)$ $\overset{112}{}$

j. Put < or >: $4 \;\boxed{>}\; 3$

• For Rough Work •

(b) $p = 2(l+b)$
$42 = 2(l+8)$
$\dfrac{42}{2} = l+8$
$21 - 8 = l$
$13 = l$

(g) 20 pencils = ₹ 60
1 pencil = ₹ $\dfrac{60}{20}$ = ₹3

Date : ....   Marks   Sign

Worksheet

WORKSHEET ①

TIME

A. Tick (✓) the correct options.

1. What time will be 5 hours 20 min before 1:30 p.m.? _____

   a. 8:10 p.m. ☐   b. 8:10 a.m. ☑   c. 8:11 a.m. ☐

$$\begin{array}{cc} hr & min \\ 13 & 30 \\ -05 & 20 \\ \hline 8 & 10 \end{array}$$

2. The birds began chirping at 3:45 a.m. They chirped for 2 hours. What time did they stop chirping?

   a. 5:45 p.m. ☐   b. 5:45 a.m. ☑   c. 5:46 a.m. ☐

$$\begin{array}{cc} hr & min \\ 3 & 45 \\ +2 & 00 \\ \hline 5 & 45 \end{array}$$

3. The school carnival began at 10:00 a.m. and ended at 1:45 p.m. How long was the carnival?

   a. 3 h 45 min ☑   b. 2 h 45 min ☐   c. 3 h 15 min ☐

$$\begin{array}{cc} hr & min \\ 13 & 45 \\ -10 & 00 \\ \hline 03 & 45 \end{array}$$

4. The number of days from 5th May to 2nd June is

   a. 28 days ☐   b. 29 days ☑   c. 30 days ☐

   $31-4 = 27$ days

   $+2$

   29

5. The number of days from 10th February to 16th March in a leap year is

   a. 35 days ☐   b. 36 days ☑   c. 34 days ☐

   Feb − (29−9) = 20

   Mar − = 16

   = 36

B. Write each time in 24-hour clock.

1. 11:15 a.m. = 11:15 hours   2. 6:45 p.m. = 18:45 hours   3. 9:15 p.m. = 21:15 hours

4. 4:00 p.m. = 16:00 hours   5. 3:15 a.m. = 03:15 hours   6. 12:50 p.m. = 12:50 hours

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WORKSHEET ②

TIME

A. Tick (✓) the correct options.

1. A toy shop opens at 10 a.m. and closes at 8:30 p.m. How long the shop does remains open?

   a. 10 h 30 min ☑   b. 11 h 30 min ☐   c. 10 h 45 min ☐

2. Mona finished her dance classes on 7th July after 39 days. When did she join the class?

   a. 30th May ☑   b. 29 May ☐   c. 28 May ☐

   July − 7 days

   June − 30 days

   May − 2 days

3. 4:25 in the morning is

   a. 4:25 a.m. ☑   b. 4:25 p.m. ☐   c. 4:25 only ☐

4. The time interval from 5:50 p.m. to 12:00 midnight is

   a. 6 h 10 min ☑   b. 6 h 15 min ☐   c. 5 h 10 min ☐

5. The time 6 hours 20 minutes after 11:15 a.m. is

   a. 5:35 p.m. ☑   b. 5:35 a.m. ☐   c. 5:30 p.m. ☐

$$\begin{array}{cc} hr & min \\ 11 & 15 \\ +06 & 20 \end{array}$$