

Let's Recall

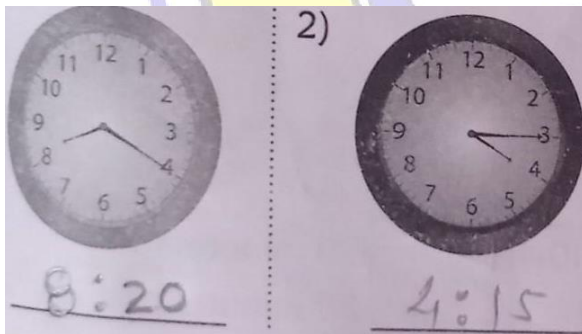
A) Fill in the blanks with the correct answer.

- 1) 3 months 4 days = 94 days.
- 2) 1 week 2 days = 9 days.
- 3) 7 hours = 420 min.
- 4) 2 days 10 hours = 58 hours.
- 5) 3 hours 12 min = 192 min.
- 6) 17 hours 5 min = 1025 min.

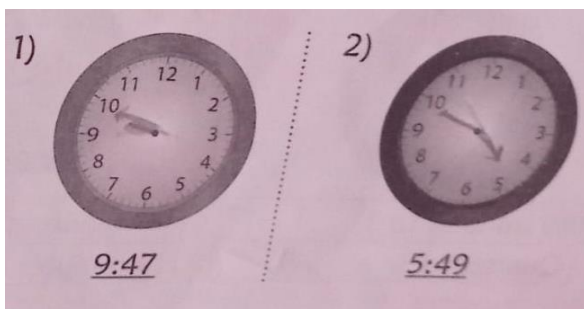
B) Write the correct time using a.m. or p.m.

- 1) 3 hours after midnight - 3 a.m.
- 2) 5 hours before noon - 7 a.m.
- 3) 9 hours afternoon - 9 p.m.
- 4) 7 hours 12 minutes after 3 a.m. - 10:12 a.m.
- 5) 1 hour 40 before after 11:30 a.m. - 9:50 a.m.

C) Read the clock and write the correct time in figures.

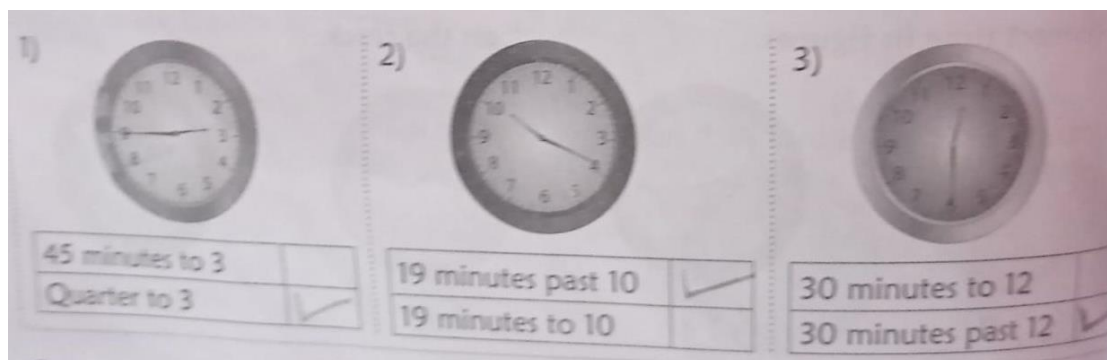


D) Read the time and represent it on the clock.

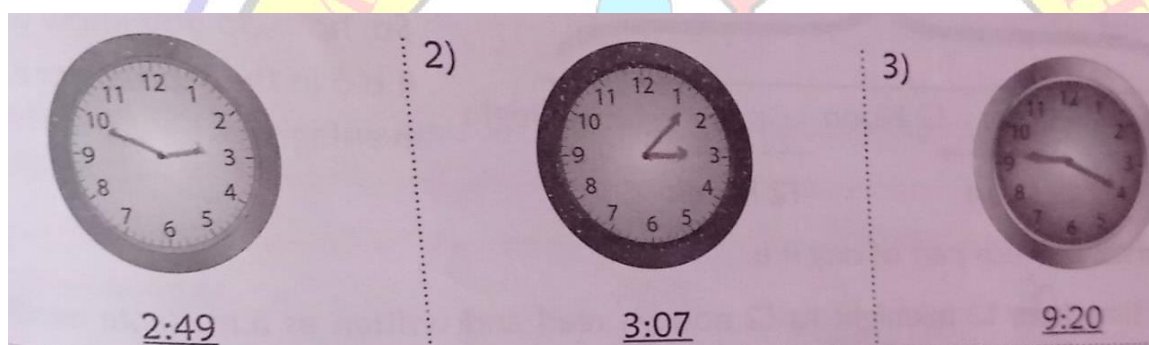


## Exercise – 11.1

A) Tick (✓) the correct time.

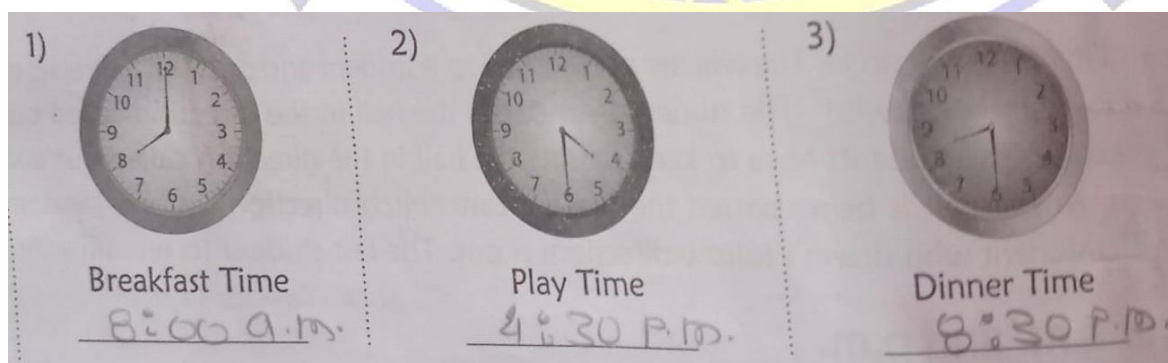


B) Draw the hands to show the time.



## Exercise – 11.2

A) Write the time using a.m. or p.m.



B) Fill in the blanks using a.m. or p.m.

- 1) The sun rises at 6:15 – a.m.
- 2) The shop opens at 9:00 – a.m.
- 3) We eat lunch at 1:45 – p.m.
- 4) Mitali goes to school at 7:30 – a.m.

C) Write the time one before.

- 1) 6.30 a.m. – 5.30 a.m. 2) 12.15 p.m. – 11.15 a.m.
- 3) 12.30 a.m. – 11.30 p.m. (4) 4.40 p.m. – 3.40 p.m.

D) Write the time one hour after .

- 1) 2.05 p.m – 3.05 p.m. 2) 12.15 a.m.- 1.15 a.m.
- 3) 6.40 a.m.- 7.40 a.m. 4) 11.30 a.m. – 12.30 p.m.

### Exercise -11.3

A) Write the time by using 24-hour clock.

- 1) 4:32 a.m. – 4:32 hours      2) 12 noon – 12:00 hours      3) 12 midnight – 24:00 hours
- 4) 6:10 p.m. – 18:10 hours      5) 7 a.m. – 7:00 hours      6) 9 p.m. – 21:00 hours
- 7) 5:15 p.m. – 17:15 hours      8) 8:20 p.m. – 20:20 hours      9) 5:36 a.m. – 5:36 hours

B) Write the time by using 12-hour clock.

- 1) 16:00 hours – 4 p.m.      2) 18:00 hours – 6 p.m.      3) 12:45 hours – 12:45 p.m.
- 4) 20:17 hours – 8:17 p.m.      5) 13:14 hours – 1: 14 p.m.      6) 00:35 hours- 00:35 a.m.
- 7) 14:23 hours – 2:23 p.m.      8) 19:00 hours – 7 p.m.      9) 21:15 hours – 9:15 p.m.

### Exercise – 11.4

A) Find the time duration of each of the following.

1) 11:00 a.m. to 4:15 p.m.

Sol- 11:00 a.m. = 1100 hrs,                      hrs    min

4:15 p.m. = 1615 hrs                      16    15

$$- \begin{array}{r} 11 \ 00 \\ \hline 5 \ 15 \end{array} = 5 \text{ hrs } 15 \text{ min}$$

2) 12 noon to 8:45 p.m. - 8 hrs 45 min

3) 1:00 p.m. to 6:29 p.m. - 5 hrs 29 min

4) 12 midnight to 1:00 p.m.

Sol- 1:00 p.m. = 13:00 hour

12 midnight = - 00:00 hour

13:00 hour = 13 hours

B) Read, understand and answer each of the following.

1) A train starts at 1.15 p.m. and reaches its destination at 6.50 p.m. How long did the train run ?

Hrs min

Sol- Reaching time = 6 50

Starting time =  $\frac{-1}{15}$

So, duration = 5 35 = 5 hrs 35 min

2) The duration of the football match is 3 hours 17 minutes . If it began at 2.00. p.m.

at what time does it get over ?

hrs min

Sol- Beginning time = 2 00

Duration = + 3 17

So, Ending time = 5 17 = 5: 17 p.m.

3) School starts at 8.00. a.m. and closes at 3.00. p.m. How many hours is the school open for ?

Sol- hrs min

Ending time = 3:00 p.m. = 15 00

Starting time = - 8 00

So, duration 7 00 = 7 hrs

### Exercise 11.5

A) Convert into minutes.

1) 24 hrs

Sol- 1 hour = 60 min

So, 24 hrs =  $24 \times 60 \text{ min} = 1440 \text{ min}$

2) 10 hr 14 min

Sol- Sol- 1 hour = 60 min

So, 10 hrs 14 min =  $10 \times 60 \text{ min} + 14 \text{ min} = 600 \text{ min} + 14 \text{ min} = 614 \text{ min}$

3) 8 hr 30 min

Sol- 1 hour = 60 min

So, 8 hrs 30 min =  $8 \times 60 \text{ min} + 30 \text{ min} = 480 \text{ min} + 30 \text{ min} = 510 \text{ min}$

B) Convert into seconds.

1) 10 min

Sol- 1 min = 60 seconds

So, 10 min =  $10 \times 60 \text{ sec.} = 600 \text{ sec.}$

2) 3 hr 30 min

Sol- 1 hour = 60 min

$$1 \text{ hour} = 60 \times 60 = 3600 \text{ seconds}$$

$$\text{So, } 3 \text{ hrs } 30 \text{ min} = 3 \times 3600 \text{ sec.} + 30 \times 60 \text{ sec.} = 10800 \text{ sec} + 1800 \text{ sec} = 12600 \text{ sec.}$$

3) 2 hr 3 min 30 sec

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

$$1 \text{ hour} = 60 \times 60 = 3600 \text{ seconds}$$

$$\text{So, } 2 \text{ hrs } 3 \text{ min } 30 \text{ sec} = 2 \times 3600 \text{ sec.} + 3 \times 60 \text{ sec} + 30 \text{ sec.}$$

$$= 7200 \text{ sec} + 180 \text{ sec} + 30 \text{ sec} = 7410 \text{ sec.}$$

C) Convert into hours and minutes.

1) 75 min

Sol- 60 min = 1 hour

$$\text{So, } 75 \text{ min} = \frac{75}{60} \text{ hrs} = 1 \text{ hour } 15 \text{ min}$$

2) 6600 min

Sol, 60 min = 1 hour

$$\text{So, } 6600 \text{ min} = \frac{6600}{60} \text{ hrs} = 110 \text{ hours}$$

3) 4200 min

Sol, 60 min = 1 hour

$$\text{So, } 4200 \text{ min} = \frac{4200}{60} \text{ hrs} = 70 \text{ hours}$$

D) Convert into minutes and seconds.

1) 480 sec

Sol, 60 sec = 1 min

$$\text{So, } 480 \text{ sec} = \frac{480}{60} \text{ min} = 8 \text{ min}$$



2) 920 sec

Sol, 60 sec = 1 min

$$\text{So, } 920 \text{ sec} = \frac{920}{60} \text{ min} = 15 \text{ min } 20 \text{ sec}$$

3) 6600 sec

Sol, 60 sec = 1 min

$$\text{So, } 6600 \text{ sec} = \frac{6600}{60} \text{ min} = 110 \text{ min}$$

E) Solve.

1) How many time does the second hand go around the clock in 1 hour ?

Sol- 60 times

2) Nancy took 4 minutes 15 seconds to eat her breakfast. How many seconds did she take ?

Sol- 4 min 15 seconds into seconds

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

$$\text{So, } 4 \text{ min } 15 \text{ seconds} = 4 \times 60 \text{ sec} + 15 \text{ sec} = 240 \text{ sec} + 15 \text{ sec} = 255 \text{ seconds.}$$

Exercise – 11.6

A) Add.

|       |     |     |       |     |     |       |     |     |
|-------|-----|-----|-------|-----|-----|-------|-----|-----|
| 1)    | hrs | min | 2)    | hrs | min | 3)    | hrs | min |
|       | 13  | 12  |       | 8   | 32  |       | 10  | 16  |
| +     | 2   | 18  | +     | 14  | 17  | +     | 11  | 11  |
| <hr/> |     |     | <hr/> |     |     | <hr/> |     |     |
|       | 15  | 30  |       | 22  | 49  |       | 21  | 27  |

B) Arrange the time in columns and add.

1) 8 hrs 19 min + 14 hrs 35 min

2) 12 hrs 17 min + 3 hrs 29 min

Sol- hrs min

hrs min

8 19

12 17

$$\begin{array}{r} + 14 \quad 35 \\ \hline \end{array}$$

$$22 \quad 54$$

$$\begin{array}{r} + 3 \quad 29 \\ \hline \end{array}$$

$$15 \quad 46$$

### Exercise – 11.7

A) Subtract..

|    |          |           |    |          |           |
|----|----------|-----------|----|----------|-----------|
| 1) | hrs      | min       | 2) | hrs      | min       |
|    | 7        | 45        |    | 19       | 27        |
| -  | <u>2</u> | <u>18</u> | -  | <u>3</u> | <u>20</u> |
|    | 5        | 27        |    | 16       | 07        |

B) Arrange the time in columns and subtract.

|                                 |                                  |
|---------------------------------|----------------------------------|
| 1) 15 hrs 37 min - 8 hrs 11 min | 2) 22 hrs 48 min - 12 hrs 32 min |
|---------------------------------|----------------------------------|

|      |          |           |     |                     |
|------|----------|-----------|-----|---------------------|
| Sol- | hrs      | min       | hrs | min                 |
|      | 15       | 37        | 22  | 48                  |
| -    | <u>8</u> | <u>11</u> | -   | <u>12</u> <u>32</u> |
|      | 7        | 26        |     | 10 16               |

### Exercise 11.8

A) Solve the following.

1) A man travelled for 2 hrs 19 min by bus and 3 hrs 40 min by train to reach his destination. How long did he take to reach his destination?

|                        |     |                     |
|------------------------|-----|---------------------|
|                        | Hrs | min                 |
| Sol - Travelled by bus | =   | 2 19                |
| Travelled by road      | =   | <u>+ 3 40</u>       |
| So, Duration           | =   | 5 59 = 5 hrs 59 min |

2) A train leaves Delhi at 2 p.m. and reaches Bhopal at 8: 15 p.m. How long does train run ?

|                    |   |                     |
|--------------------|---|---------------------|
| Sol- Reaching time | = | 8 15                |
| Starting time      | = | <u>- 2 00</u>       |
| So, duration       | = | 6 15 = 6 hrs 15 min |

3) Simmy slept for half an hour and then played for 25 min .How many minutes did she spend on both the activities?

Sol- Slept = Half an hour = 30 min

Played = + 25 min

So, duration = 55 min

4) Rohan's kindergarten begins at 8 a.m. and finishes at half past 11.

How long does Rohan remain away from home ?

Sol- Finishing time = half past 11 = 11 30

Beginning time = - 8 00

So, duration = 3 30 = 3 hrs 30 min

5) Meera start work at 9:30 a.m. and finishes at 6:00 p.m. How much time does Meera spend at work?

Sol- Finishing time 6:00 p.m. = 18 00

Beginning time = - 9 30

So, duration = 8 30 = 8 hrs 30 min

### Exercise 11.9

A) Read the calendar given and answer the following questions.

1) How many Saturdays are there in the month of March ? 4

2) How many Sundays are there in the month of January ? 4

3) What day is

i) 4th November. Wednesday

ii) The second day in the month of December. Wednesday

iii) 30th of May. Saturday

4) What date is :

i) Fourth Friday of the month of September. 25<sup>th</sup> September

ii) Second Sunday of the month of March. 8<sup>th</sup> March

iii) The 5th day of the month of August. Wednesday