St. Andrews Scots Sr. Sec. School

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Session: 2024-2025

Class: IV   **Subject: Mathematics**   **Topic: Unit - 11 Time**

Questions to be done-

Warm up points and Remember points –

Exercise 11 A - Q.1, Q.2, Q.3, Q.4 a,c,e(Book)

Exercise 11 B - Q.1, Q.2 (Book)

         Q.4 a,d, Q.6, Q.8, Q.10

         Q.9 (Homework)

Exercise 11 C – Q.1 (Book)

         Q.2 a,c Q.3a,c Q.4 b,c Q.5 b,c

Exercise 11 D – Q.1 a,e,f Q.3 a,e,f Q.5

         Q.2 (Book)

Exercise 11 E – Q.1 a,d,e Q.2 a,e Q.4, Q.5

Exercise 11 F - Q.1, Q.3, Q.5

Exercise 11 G- Q.1, Q.2

Worksheet

Chapter 11: Time

Exercise 11A

1. (b) <u>10</u> minutes past <u>4</u>   (c) <u>50</u> minutes past <u>5</u>
       <u>50</u> minutes to <u>5</u>   <u>10</u> minutes to <u>6</u>

   (d) <u>45</u> minutes past <u>8</u>   (e) <u>25</u> minutes past <u>12</u>
       <u>15</u> minutes to <u>9</u>   <u>35</u> minutes to <u>1</u>

   (f) <u>40</u> minutes past <u>3</u>
       <u>20</u> minutes to <u>4</u>

2. (a) The small hand is the <u>hour</u> hand and the long hand is the <u>minute</u> hand in a clock.

   (b) The small hand moves round the clock <u>two</u> times in 24 hours.

   (c) There are <u>60</u> minutes in 1 hour and <u>24</u> hours in 1 day.

   (d) There are <u>60</u> seconds in one minute.

   (e) We say 20 minutes past eight or <u>8 : 20</u> or 40 minutes to 9.

3. (a) 6 : 25 a.m.   (b) 12 : 15 p.m.   (c) 12 : 20 a.m.
   (d) 8 : 23 p.m.   (e) 1 : 05 a.m.   (f) 7 : 40 p.m.

4. (a) 9 : 30 a.m.   (b) 8 : 40 p.m.   (c) 6 : 55 a.m.
   (d) 8 a.m.   (e) 12 : 50 a.m.   (f) 2 : 00 p.m.

Exercise 11B

1. Clock A: <u>2 : 40</u>   Clock B: <u>7 : 23</u>

2. Clock A: <u>1 : 28</u>   Clock B: <u>2 : 31</u>

3. Clock A: <u>3 : 54</u>   Clock B: <u>10 : 08</u>

4. (a) 75 minutes   (b) 70 minutes   (c) 45 minutes   (d) 35 minutes

5. Sejal started her work at 6 : 35 p.m.
She finished it at 7 : 15 p.m.
Time from 6 : 35 p.m. to 7 is 25 minutes
Time from 7 p.m. to 7 : 15 p.m. = 15 minutes
Adding 25 minutes and 15 minutes we get 40 minutes. Hence, Sejal took 40 minutes to complete her work.

6. Taruna started her journey at 10 : 40 a.m.
She reached at 2 : 35 p.m.
Time taken in journey = 2 : 35 p.m. – 10 : 40 a.m.
= 3 hours 55 minutes.

7. Time from 6 : 50 a.m. to 7 : 00 a.m. = 10 minutes
Time from 7 : 00 a.m. to 9 : 40 a.m. = 2 : 40 hrs.
Hence, Total time = 2 : 40 + 10 minutes = 2 : 50 hrs

8.   11 : 40 a.m.
+ 2 : 30
‾‾‾‾‾‾‾
13 : 70 → (13 + 1) : (70 – 60) = 14 : 10
again 14 : 10 – 12 : 00 = 2 : 10 p.m.

9. (7 : 30 – 5 : 40) p.m. = (6 : 90 – 5 : 40) p.m.
⟹   6 : 90
– 5 : 40
‾‾‾‾‾‾‾
1 : 50 hrs

10.   12 : 30
– 8 : 15
‾‾‾‾‾‾‾
4 : 15 hrs

Exercise 11C

1. (a) 7 hours = <u>420</u> minutes.   (b) 8 weeks = <u>56</u> days.
   (c) 13 minutes = <u>780</u> seconds.   (d) 6 days = <u>144</u> hours.
   (e) 85 days = <u>2</u> months <u>25</u> days.   (f) 120 seconds = <u>2</u> minutes.

2. (a) 8 hours = 8 × 60 minutes = 480 minutes.
   (b) 7 h 23 min. = 7 × 60 + 23 = 420 + 23 = 443 minutes.
   (c) 420 seconds = 420 ÷ 60 = 7 minutes.

3. (a) 5 minutes = 5 × 60 seconds = 300 seconds.
   (b) 4 min 20 seconds = (4 × 60 + 20) seconds = (240 + 20) sec.
   $$= 260 \text{ seconds}$$
   (c) 19 min 23 seconds = (19 × 60 + 23) seconds = 1163 seconds.

4. (a) 180 minutes
   = (180 ÷ 60) hours = 3 hours (60 minutes = 1 hour)
   (b) 560 minutes
   = (560 ÷ 60) hours = 9 hours 20 minutes (60 minutes = 1 hour)
   (c) 480 minutes
   = (480 ÷ 60) hours = 8 hours (60 minutes = 1 hour)

5. (a) 6 weeks = (6 × 7) days = 42 days.
   (b) 3 months = (3 × 30) days = 90 days.
   (c) 3 weeks 5 days = (3 × 7 + 5) days = 21 + 5 = 26 days.

Exercise 11D

1. (a) 7 : 30 a.m. = 0730 hours.   (b) 12 : 40 a.m. = 0040 hours.
   (c) 12 : 30 p.m. = 1230 hours.   (d) 4 : 27 p.m. = 1627 hours.
   (e) 6 : 25 p.m. = 1825 hours.   (f) 2 : 30 p.m. = 1430 hours.

2. (a) 4 : 10 p.m.   (b) 10 : 00 p.m. (c) 10 : 15 p.m. (d) 9 : 45 a.m.

3. (a) 0432 hours = 4 : 32 a.m.   (b) 2220 hours = 10 : 20 p.m.
   (c) 0450 hours = 4 : 50 a.m.   (d) 1840 hours = 6 : 40 p.m.
   (e) 0235 hours = 2 : 35 a.m.   (f) 2359 hours = 11 : 59 p.m.

4. Sonia's flight arrives at 1135 hours or 11 : 35 a.m.

5. Rita goes to play at 1830 hours = 6 : 30 p.m.
   She comes back at 7 : 50 p.m.
   Duration of playing = 7 : 50 p.m. – 6 : 30 p.m. = 1 hour 20 minutes.

Exercise 11E

1. (a) 7 hours 15 minutes and 3 hours 35 minutes.

Hrs.	Min.
7	15
+ 3	35
10	50

Sum = 10 hours 50 minutes.

(b) 10 hours 39 min and 7 hours 40 min.

Hrs.	Min.
10	39
+ 7	40
17	79

79 minutes = 60 + 19 min. = 1 h 19 min.

Sum = 17 hrs. 79 min. = 18 hrs. 19 min.

(c) 25 min. 28 sec. and 14 min. 6 sec.

Min.	Sec.
25	28
+ 14	06
39	34

Sum = 39 min. 34 sec.

(d) 24 min. 38 sec. and 6 min. 20 sec.

Min.	Sec.
24	38
+ 6	20
30	58

Sum = 30 min. 58 sec.

(e) 9 h. 9 min. and 2 h. 50 min.

Hrs.	Min.
9	09
+ 2	50
11	59

Sum = 11 hours 59 min.

2. (a)

Hrs.	Min.
7	50
− 3	43
4	07

Difference = 4 hours 7 minutes

(b)

Hrs.	Min.
⑬	⑧⓪
1̶4̶	2̶0̶
− 9	36
4	44

Difference = 4 hours 44 minutes.

(c)

Min.	Sec.
⑨	⑨⓪
1̶0̶	3̶0̶
− 6	40
3	50

Difference = 3 min. 50 sec.

(d)

Min.	Sec.
㉔	⑦⑧
2̶5̶	1̶8̶
− 17	50
7	28

Difference = 7 min. 28 sec.

(e)

Min.	Sec.
45	15
− 30	00
15	15

Difference = 15 min. 15 sec.

3. Annual day programme got over at the time = 7.30 p.m.
Programme duration = − 3 hours
It started at the time = 4.30 p.m.

4.

	Hrs.	Min.
Pratima studied English for	1	15
She studied Maths for	+ 1	25
Total duration of study =	2	40	= 2 hours 40 min.

5. Soha went for shopping at 6 : 30 p.m. = 1830 hours
She came back after 2 h 18 min.
So, she came back at 1830 + 0218 = 2048 hours or at 8:48 p.m.

1. Rohan's appointment with doctor was on June 8th. After six months of June *i.e.*, in <u>December</u>, Rohan should make an appointment.

2. Lalit is leaving on February 18th.
   Before 14 days he has to purchase his ticket on $18 - 14 = $ 4th February.

3. Number of months from 24th May to 24th October = 5
   Number of weeks from 24th October to 31st October = 1
   Number of days from 1st to 4th November = 4
   So, from 24th May to 4th November there are 5 months 1 week and 4 days.

4. Mary was nine years old on 1st August.
   Sara was nine years old on 24th August.
   Mary is older than Sara by $24 - 1 = 23$ days.

5. Jessica was born on 6th June 1961.
   Her age in 2019 will be $2019 - 1961 = 58$ years.

1. Do yourself.

2. (a) $2012 \div 4 = 503$ (Leap year)   (b) $2010 \div 4 = 502.5$ (Not leap year)
   (c) $2400 \div 4 = 600$ (Leap year)   (d) $2020 \div 4 = 505$ (Leap year)