

Grade 4 Mathematics - Chapter 4

Tick-Tick-Tick

Original CBSE/NCERT-aligned learning material for Paryan's Learning Hub

Learning goals

Read analogue and digital clocks, understand hours and minutes, use a.m. and p.m., calculate elapsed time, read calendars, and solve everyday time problems.

1. Understanding the Clock

A clock helps us measure time. The short hand shows the hour and the long hand shows the minutes. One complete turn of the minute hand is 60 minutes, or 1 hour.

Time fact	Value
1 hour	60 minutes
Half an hour	30 minutes
Quarter of an hour	15 minutes
1 day	24 hours
1 week	7 days

2. Reading Time

When the minute hand points to 12, we say the time is exactly on the hour. When it points to 6, 30 minutes have passed. For example, 4:30 means half past four.

Practice A

1. How many minutes are there in 2 hours?
2. How many minutes are there in half an hour?
3. Write half past 7 in digital form.
4. Write 9:15 in words.
5. What time is 45 minutes after 3:00?

3. a.m. and p.m.

We use a.m. for times from midnight to before noon, and p.m. for times from noon to before midnight. For example, breakfast may be at 8:00 a.m. and dinner at 8:00 p.m.

Choose a.m. or p.m.

1. School begins at 8:00 ____.
2. You usually sleep at 10:00 ____.
3. Lunch may be eaten at 1:00 ____.

4. Sunrise may be around 6:00 _____.

4. Finding Elapsed Time

Elapsed time tells us how much time passes between a starting time and an ending time.

Example: A class starts at 9:10 a.m. and ends at 10:00 a.m. From 9:10 to 10:00 is 50 minutes. So the class lasts **50 minutes**.

Practice B

1. A movie starts at 4:00 p.m. and ends at 5:30 p.m. How long is it?
2. A bus leaves at 8:15 a.m. and arrives at 9:00 a.m. Find the travel time.
3. Paryan studies from 6:20 p.m. to 7:05 p.m. How long does he study?
4. A game begins at 3:30 p.m. and lasts 1 hour. When does it finish?
5. A lesson starts at 10:45 a.m. and lasts 30 minutes. When does it end?

5. Calendar Mathematics

Calendars help us organise days, weeks and months. Some months have 30 days, some have 31, and February usually has 28 days.

Months with 31 days	Months with 30 days
January, March, May	April, June
July, August, October, December	September, November

Practice C

1. How many days are there in 3 weeks?
2. How many weeks are there in 28 days?
3. Which month comes after September?
4. How many days are there in April?
5. If today is Monday, what day will it be 5 days later?

6. My Daily Schedule Activity

Fill in the times for your own daily routine.

Activity	Time
Wake up	_____
Breakfast	_____
School starts	_____
Homework	_____
Dinner	_____
Bedtime	_____

7. Challenge Questions

1. A train leaves at 7:35 a.m. and reaches its destination at 10:05 a.m. How long is the journey?
2. A cricket practice lasts 1 hour 45 minutes and starts at 4:15 p.m. When does it finish?
3. Riya reads for 35 minutes in the morning and 50 minutes in the evening. How many minutes does she read altogether?
4. A school holiday begins on 12 June and school reopens on 20 June. How many full days are between these dates?

8. Quick Quiz

1. 3 hours = _____ minutes.
2. Quarter past 5 = _____.
3. 6:30 is also called _____ past six.
4. 90 minutes = _____ hour(s) _____ minutes.
5. 2 weeks = _____ days.

Answer Key

Practice A: 1) 120 minutes; 2) 30 minutes; 3) 7:30; 4) quarter past nine; 5) 3:45.

a.m./p.m.: 1) a.m.; 2) p.m.; 3) p.m.; 4) a.m.

Practice B: 1) 1 hour 30 minutes; 2) 45 minutes; 3) 45 minutes; 4) 4:30 p.m.; 5) 11:15 a.m.

Practice C: 1) 21 days; 2) 4 weeks; 3) October; 4) 30 days; 5) Saturday.

Challenge: 1) 2 hours 30 minutes; 2) 6:00 p.m.; 3) 85 minutes; 4) 7 full days.

Quick Quiz: 1) 180; 2) 5:15; 3) half; 4) 1 hour 30 minutes; 5) 14.