

GRADE 5 MATHEMATICS

TIME & TIMETABLES

A complete printable worksheet pack

12-hour & 24-hour time • elapsed time • timetables • duration • schedules • real-life problem solving

Worksheet 1: 12-Hour & 24-Hour Time

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

1. Convert each time to 24-hour time: (a) 7:35 a.m. (b) 12:20 p.m. (c) 4:45 p.m. (d) 11:58 p.m.
2. Convert each time to 12-hour time: (a) 06:15 (b) 13:40 (c) 18:05 (d) 23:25.
3. Write <, > or =: (a) 08:45 ____ 8:45 a.m. (b) 14:30 ____ 2:45 p.m. (c) 21:10 ____ 9:10 p.m.
4. A school starts at 07:50 and ends at 14:35. Write both times in 12-hour and 24-hour formats.
5. Put these times in order from earliest to latest: 16:20, 09:55, 13:05, 07:45, 18:10.
6. A digital clock shows 23:47. What time will it show 25 minutes later?
7. Write the time 1 hour 35 minutes before 06:20.
8. Challenge: A train leaves at 19:48. It is delayed by 37 minutes. What is its new departure time in both formats?

Answer Key — 1: 12-Hour & 24-Hour Time

1. 07:35; 12:20; 16:45; 23:58.
2. 06:15; 13:40; 18:05; 23:25.
3. =; <; =.
4. 07:50 a.m./07:50; 2:35 p.m./14:35.
5. 07:45, 09:55, 13:05, 16:20, 18:10.
6. 00:12 (next day).
7. 04:45.
8. 20:25 / 8:25 p.m.

Teacher note: Accept equivalent correct methods and clearly shown working.

Worksheet 2: Elapsed Time & Time Intervals

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

1. Find the elapsed time: (a) 08:25 to 10:10 (b) 13:40 to 16:05.
2. A movie begins at 18:35 and ends at 20:48. How long is it?
3. A lesson lasts 55 minutes and begins at 09:15. When does it finish?
4. Riya starts homework at 17:20. She works for 1 hour 35 minutes. What time does she finish?
5. A bus leaves at 06:45 and arrives at 08:18. How long is the journey?
6. A football match starts at 15:30. The first half lasts 45 minutes, followed by a 15-minute break and a second half of 45 minutes. When does the match finish?
7. A recipe takes 1 hour 20 minutes to prepare and cook. It must be ready at 19:00. What is the latest start time?
8. Challenge: A study session runs from 16:35 to 19:10 with a 20-minute break. How much actual study time is there?

Answer Key — 2: Elapsed Time & Time Intervals

1. 1 h 45 min; 2 h 25 min.
2. 2 h 13 min.
3. 10:10.
4. 18:55.
5. 1 h 33 min.
6. 17:15.
7. 17:40.
8. 2 h 15 min.

Teacher note: Accept equivalent correct methods and clearly shown working.

Worksheet 3: Reading Timetables

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

- 1.** Use this bus timetable: Route 5 — Central 07:20, 08:05, 08:50, 09:35, 10:20. (a) What is the first departure? (b) How long between buses? (c) What is the fourth departure?
- 2.** Train timetable: Delhi 06:40 → Jaipur 10:15; Delhi 08:25 → Jaipur 12:05; Delhi 10:10 → Jaipur 13:55. Which train arrives first? How long is that journey?
- 3.** A library opens at 09:30 and closes at 17:15. It closes for lunch from 13:00 to 14:00. How long is it open to visitors?
- 4.** School clubs start at 15:20. Art lasts 50 minutes; then Music lasts 45 minutes. At what time does Music finish?
- 5.** A cinema has shows at 14:10, 16:35, 19:00 and 21:25. (a) What is the interval between shows? (b) Which show is closest to 18:00?
- 6.** A train is scheduled for 11:45 but arrives at 12:18. How many minutes late is it?
- 7.** A coach leaves at 07:55 and the next one leaves 1 hour 20 minutes later. List the next three departure times.
- 8. Challenge:** A student must arrive at school by 08:25. Her bus journey takes 42 minutes. The bus stop is a 7-minute walk from home. What is the latest time she should leave home?

Answer Key — 3: Reading Timetables

1. (a) 07:20 (b) 45 min (c) 09:35.
2. 06:40 train; 3 h 35 min.
3. 6 h 45 min.
4. 16:55.
5. 2 h 25 min; 19:00.
6. 33 min late.
7. 09:15, 10:35, 11:55.
8. 07:36.

Teacher note: Accept equivalent correct methods and clearly shown working.

Worksheet 4: Schedules & Multi-Step Time Problems

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

- 1.** A school day starts at 08:10. There are three 50-minute lessons and two 15-minute breaks. If the lessons and breaks occur one after another, when does this block finish?
- 2.** A family leaves home at 09:35. They drive for 1 hour 25 minutes, stop for 30 minutes, then drive another 45 minutes. What time do they arrive?
- 3.** A flight departs at 21:40 and lands at 01:15 the next day. How long is the flight?
- 4.** A sports practice runs from 16:15 to 18:05. There is a 20-minute warm-up and a 15-minute break. How much time is spent on the main practice?
- 5.** A museum visit begins at 10:25. It includes 55 minutes in Gallery A, 40 minutes in Gallery B, a 25-minute lunch break, and 50 minutes in Gallery C. When does the visit finish?
- 6.** A train journey is planned for 2 hours 35 minutes. It is delayed by 25 minutes before departure. If it was due to leave at 14:20, when will it arrive?
- 7.** A student has 2 hours available from 17:30. She spends 35 minutes on maths, 45 minutes on science and 25 minutes reading. How much time remains?
- 8. Challenge:** A concert begins at 19:15. It has three 35-minute performances with two 20-minute intervals. At what time does it end?

Answer Key — 4: Schedules & Multi-Step Time Problems

1. 11:40.
2. 12:15.
3. 3 h 35 min.
4. 1 h 15 min.
5. 13:15.
6. 17:20.
7. 15 min.
8. 21:40.

Teacher note: Accept equivalent correct methods and clearly shown working.

Worksheet 5: Time in Real Life

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

- 1.** A baker starts work at 05:45 and works until 13:30, with a 30-minute break. How many hours and minutes does the baker actually work?
- 2.** A phone battery takes 1 hour 50 minutes to charge. It starts charging at 22:35. When will it be fully charged?
- 3.** A parcel is due at 16:20. It arrives 38 minutes early. What time does it arrive?
- 4.** A train travels 360 km in 4 hours. If it leaves at 07:30 and travels at the same average speed, what time does it arrive?
- 5.** A school bus makes three stops taking 8, 6 and 10 minutes. The driving time is 42 minutes. If it starts at 07:05, when does it finish the route?
- 6.** A family plans a 5-hour trip. They leave at 06:50 and take a 35-minute lunch stop. What time will they arrive?
- 7.** A digital event starts at 18:45 and lasts 2 hours 20 minutes. There is a 15-minute interval included in the total. When does it end?
- 8. Challenge:** A student needs 1 hour 40 minutes for study, 35 minutes for dinner and 25 minutes to prepare for bed. If she starts at 18:20 and must be in bed by 21:30, how much free time does she have?

Answer Key — 5: Time in Real Life

1. 7 h 15 min.
2. 00:25 (next day).
3. 15:42.
4. 11:30.
5. 08:11.
6. 12:25.
7. 21:20.
8. 25 min.

Teacher note: Accept equivalent correct methods and clearly shown working.

Worksheet 6: Time & Timetable Reasoning Challenge

Show your working where needed. Use a.m./p.m. or 24-hour time consistently.

1. A clock gains 4 minutes every hour. If it is correct at 08:00, what will it show at 14:00?
2. A train leaves at 23:35 and travels for 2 hours 50 minutes. Does it arrive before or after midnight? Give the exact arrival time.
3. A timetable lists departures every 35 minutes starting at 06:10. What are the first five departure times?
4. A journey takes 1 hour 48 minutes. A traveller wants to arrive by 12:30 and needs 12 minutes to walk from the station. What is the latest train arrival time, and what is the latest train departure if the journey starts at that time?
5. A school has 6 lessons of 45 minutes each and five breaks of 10 minutes. If the first lesson begins at 08:00, when does the school day finish?
6. A bus normally takes 1 hour 15 minutes. Today it takes 18 minutes longer. If it leaves at 16:25, when does it arrive?
7. Between 09:20 and 15:50, how many complete 40-minute study sessions can fit if there is a 10-minute break between sessions?
8. Challenge: A flight leaves at 22:50 and lasts 7 hours 35 minutes. It crosses into a time zone that is 2 hours ahead. What is the local arrival time?

Answer Key — 6: Time & Timetable Reasoning Challenge

1. 14:24.
2. 02:25 (next day), after midnight.
3. 06:10, 06:45, 07:20, 07:55, 08:30.
4. Latest arrival 12:18; latest departure 10:30.
5. 13:10.
6. 17:58.
7. 8 complete sessions.
8. 08:25 (next day, local time).

Teacher note: Accept equivalent correct methods and clearly shown working.