

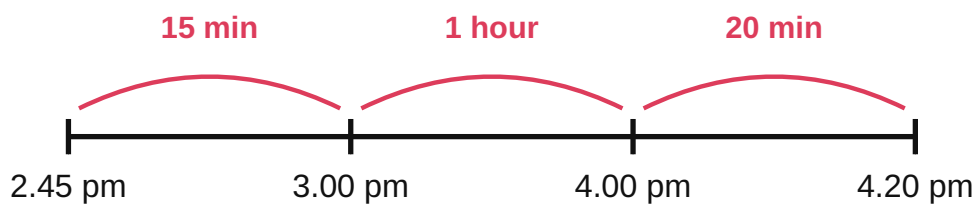
## Boost Free Lessons - Year 5 Maths

### Lesson 17: Duration and Elapsed Time

Name: \_\_\_\_\_ Grade: \_\_\_\_\_ Date: \_\_\_\_\_

#### Worked Example 1

A film starts at 2.45 pm and ends at 4.20 pm. How long does it run?



1. Jump to the next whole hour first. 2.45 pm to 3.00 pm is 15 minutes.
2. Then jump in whole hours. 3.00 pm to 4.00 pm is 1 hour.
3. Then jump the last part. 4.00 pm to 4.20 pm is 20 minutes.
4. Add the jumps: 15 min + 1 hour + 20 min = 1 hour 35 minutes.

**1 hour and 35 minutes**

#### Worked Example 2

**Write 7.40 pm in 24-hour time.**

1. Times in the morning keep the same hour number, with a leading zero if needed.
2. Times in the afternoon and evening have 12 added to the hour.
3.  $7 + 12 = 19$ , so the hour becomes 19.
4. The minutes never change, and 24-hour times are written with four digits and no am or pm.

**7.40 pm = 1940**

**Remember:** Break the time into **jumps**: up to the next whole hour, then whole hours, then the last minutes. For 24-hour time, add 12 to any pm hour.



**Question 1:** Answer the following.

1. 9.15 am to 10.45 am
2. 1.20 pm to 3.00 pm
3. 6.30 am to 8.10 am
4. 11.50 am to 1.15 pm
5. Write 3.25 pm in 24-hour time
6. Write 8.05 am in 24-hour time
7. Write 1530 in 12-hour time
8. Write 0620 in 12-hour time



**Question 2:** Answer the following.

1. A train leaves at 0745 and arrives at 0930. How long is the journey?
  
  
  
  
  
  
  
  
  
  
2. A lesson starts at 11.35 am and lasts 55 minutes. When does it end?
  
  
  
  
  
  
  
  
  
  
3. A film runs for 2 hours 15 minutes and starts at 6.50 pm. When does it finish?
  
  
  
  
  
  
  
  
  
  
4. How many minutes are there between 2.40 pm and 4.05 pm?
  
  
  
  
  
  
  
  
  
  
5. Write 2359 in 12-hour time.
  
  
  
  
  
  
  
  
  
  
6. A flight leaves at 2245 and lands at 0110. How long is the flight?



**Question 3:** Answer the following questions.

1. School starts at 8.55 am and finishes at 3.15 pm. How long is the school day?
2. A bus leaves at 7.20 am and the trip takes 1 hour 45 minutes. When does it arrive?
3. Ella practises for 40 minutes each day. How long is that over a week?
4. A show starts at 1930 and runs for 105 minutes. What time does it end?
5. A train timetable shows departures at 0615, 0645 and 0715. How often do trains leave?





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**Answers:** Duration and Elapsed Time**Question 1**

1. 1 hour 30 min
2. 1 hour 40 min
3. 1 hour 40 min
4. 1 hour 25 min
5. 1525
6. 0805
7. 3.30 pm
8. 6.20 am

**Question 2**

1. 1 hour 45 min
2. 12.30 pm
3. 9.05 pm
4. 85 minutes
5. 11.59 pm
6. 2 hours 25 min

**Question 3**

1. 6 hours 20 minutes
2. 9.05 am
3. 4 hours 40 minutes
4. 2115 (9.15 pm)
5. Every 30 minutes

