

Maths Mastery

Solve Problems

Converting Time

Challenge Cards



Hours and Minutes

The film Zootropolis is 108 minutes long.

Explain how you would convert this to hours and minutes and then calculate the finishing time when the film starts at 14:25.



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Minutes and Seconds

Complete this table to convert between seconds and minutes and seconds:

| Seconds | Minutes and Seconds |
|---------|---------------------|
| 140 | |
| | 1.45 |
| | 3:10 |
| 250 | |
| | 5:35 |



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Hours and Days

An online company promises delivery within 48 hours. How many days is that?

Medicine needs to be taken once every 6 hours. How many days will 32 tablets last?

How many hours in a week?

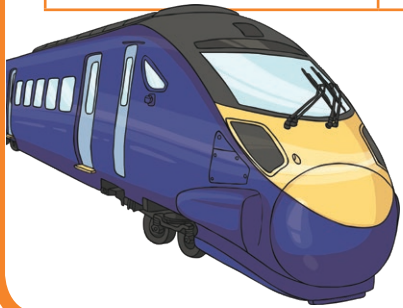


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Take the train

Here is a train timetable.

| | | | | | | | |
|---------------------|---------|-------|-------|-------|-------|-------|-------|
| Sheffield | Departs | 12:58 | 13:29 | 13:49 | 14:29 | 14:49 | 15:29 |
| London St Pancras | Arrives | 14:59 | 15:31 | 15:59 | 16:32 | 17:07 | 17:29 |
| Duration | | | | | | | |
| Duration in Minutes | | | | | | | |



1. Work out the duration of each journey in hours and minutes.
2. Convert the duration of the journeys into minutes.

Solve Problems Converting Time **Answers**

1. Divide the number of minutes by 60 to get the whole number of hours. In this case, 1 hour (60 minutes). Subtract the multiple of 60 from the minutes to leave the number of minutes after the hours. $108 - 60 = 48$.
108 minutes = 1 hour and 48 minutes.

The film starts at 14:25. Add 1 hour, makes 15:25. Add the 48 minutes to 25 gives 73 minutes. As it is more than 60, the finish time will be after the following hour by 13 minutes ($70 - 60 = 13$). The film will finish at 16:13.

2.

| Seconds | Minutes and Seconds |
|------------|---------------------|
| 140 | 2:20 |
| 105 | 1.45 |
| 190 | 3:10 |
| 250 | 4:10 |
| 335 | 5:35 |

3. An online company promises delivery within 48 hours. How many days is that?

2 days

Medicine needs to be taken once every 6 hours. How many days will 32 tablets last?

8 days

How many hours in a week?

168 hours

4.

| Sheffield | Departs | 12:58 | 13:29 | 13:49 | 14:29 | 14:49 | 15:29 |
|---------------------|---------|-------|-------|-------|-------|-------|-------|
| London St Pancras | Arrives | 14:59 | 15:31 | 15:59 | 16:32 | 17:07 | 17:29 |
| Duration | | 2:01 | 2:02 | 2:10 | 2:03 | 2:18 | 2:00 |
| Duration in Minutes | | 121 | 122 | 130 | 123 | 138 | 120 |