

Reasoning and Problem Solving

Step 4: Hours and Days

National Curriculum Objectives:

Mathematics Year 2: (2M4c) [Know the number of minutes in an hour and the number of hours in a day](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use the digit cards to find hours (that are a multiple of 10) less than or greater than a given time. Using knowledge of the number of hours in a day.

Expected Use the digit cards to find hours less than or greater than a given time. Using knowledge of the number of hours in more than one day.

Greater Depth Use the digit cards to find hours less than or greater than a given time. Using knowledge of number of hours in more than two days (including fractions of a day).

Questions 2, 5 and 8 (Reasoning)

Developing Explain which conversion of time is correct. Using multiples of 10 minutes up to 2 hours.

Expected Explain which conversion of time is correct. Using multiples of 5 minutes up to 2 hours.

Greater Depth Explain which conversion of time is correct. Using multiples of 5 minutes up to and beyond 2 hours.

Questions 3, 6 and 9 (Reasoning)

Developing Sort the times and explain which one does not fit in the table. Using multiples of 10 minutes up to 2 hours.

Expected Sort the times and explain which one does not fit in the table. Using multiples of 5 minutes up to 2 hours.

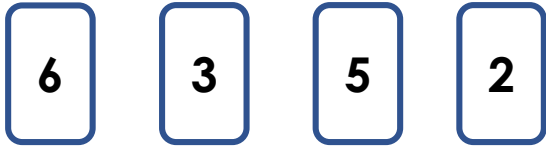
Greater Depth Sort the times and explain which one does not fit in the table. Using multiples of 5 minutes up to and beyond 2 hours.

More [Year 2 Time](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Hours and Days

1a. Use the digit cards to create a length of time to make the statement correct.



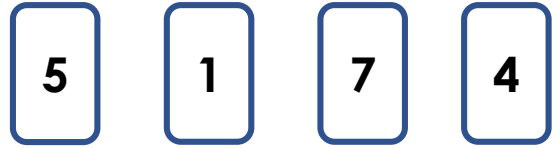
0 hours < 1 day



PS

Hours and Days

1b. Use the digit cards to create a length of time to make the statement correct.



0 hours < 1 day



PS

2a. Kim and Robbie are talking about hours and minutes.



Kim

1 hour and 10 minutes is 110 minutes.

1 hour and 10 minutes is 70 minutes.



Robbie

Who do you agree with? Explain why.



R

2b. Olly and Megan are talking about hours and minutes.



Olly

1 hour and 30 minutes is 90 minutes.

1 hour and 30 minutes is 130 minutes.



Megan

Who do you agree with? Explain why.



R

3a. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 70 minutes	From 70 minutes to 100 minutes

1 hour 20 minutes

1 hour 10 minutes

1 hour 30 minutes

1 hour 50 minutes

1 hour 40 minutes



R

3b. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 80 minutes	From 80 minutes to 100 minutes

1 hour 20 minutes

1 hour 30 minutes

1 hour 10 minutes

1 hour 0 minutes

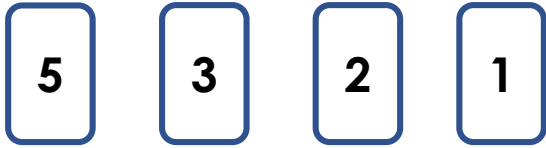
2 hours 0 minutes



R

Hours and Days

4a. Use the digit cards to create different lengths of time to make the statement correct.



hours < 1 day



PS

Hours and Days

4b. Use the digit cards to create different lengths of time to make the statement correct.



hours < 2 days



PS

5a. Abi and Liam are talking about hours and minutes.



Abi

1 hour and 35 minutes is 135 minutes.

1 hour and 35 minutes is 95 minutes.



Liam

Who do you agree with? Explain why.



R

5b. Mason and Leah are talking about hours and minutes.



Mason

1 hour and 45 minutes is 105 minutes.

1 hour and 45 minutes is 145 minutes.



Leah

Who do you agree with? Explain why.



R

6a. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 90 minutes	From 90 minutes to 110 minutes

1 hour 45 minutes

1 hour 30 minutes

1 hour 10 minutes

1 hour 55 minutes

1 hour 50 minutes



R

6b. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 80 minutes	From 80 minutes to 100 minutes

1 hour 40 minutes

1 hour 15 minutes

1 hour 25 minutes

1 hour 45 minutes

1 hour 35 minutes



R

Hours and Days

7a. Use the digit cards to create different lengths of time to make the statement correct.



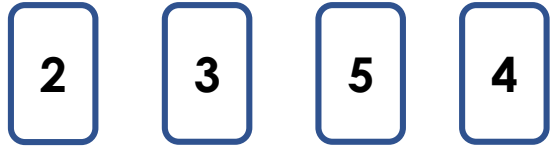
hours > 2 and a half days



PS

Hours and Days

7b. Use the digit cards to create different lengths of time to make the statement correct.



hours > 1 and a half days



PS

8a. Ben and Sara are talking about hours and minutes.



Ben

2 and a half hours is 230 minutes.



Sara

2 and a half hours is 150 minutes.

Who do you agree with? Explain why.



R

8b. Kate and Jayden are talking about hours and minutes.



Kate

2 hours and 25 minutes is 225 minutes.



Jayden

2 hours and 25 minutes is 145 minutes.

Who do you agree with? Explain why.



R

9a. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 150 minutes	From 150 minutes to 200 minutes

2 hours 45 minutes

3 hours 5 minutes

2 hours 25 minutes

2 hours 50 minutes

3 hours 25 minutes



R

9b. Sort the times into the table below. Which time does not fit in the table? Explain why.

Less than 145 minutes	From 145 minutes to 190 minutes

3 hours 10 minutes

2 hours 5 minutes

2 hour 15 minutes

3 hours 20 minutes

2 hours 30 minutes



R

Reasoning and Problem Solving Hours and Days

Developing

- 1a. 20
- 2a. Robbie is correct because there are 60 minutes in 1 hour. $60 + 10 = 70$
- 3a. 1 hour 50 minutes will not fit in the table because 1 hour and 50 minutes is 110 minutes and that is more than 100 minutes.

Expected

- 4a. Various possible answers, for example: 12, 13, 15, 21, 23
- 5a. Liam is correct because there are 60 minutes in 1 hour. $60 + 35 = 95$
- 6a. 1 hour 55 minutes will not fit in the table because 1 hour and 55 minutes is 115 minutes and that is more than 110 minutes.

Greater Depth

- 7a. Various possible answers, for example: 63, 64, 67, 73, 74, 76
- 8a. Sara is correct because there are 120 minutes in 2 hours. $120 + 30 = 150$
- 9a. 3 hours 25 minutes will not fit in the table because 3 hours and 25 minutes is 205 minutes and that is more than 200 minutes.

Reasoning and Problem Solving Hours and Days

Developing

- 1b. 10
- 2b. Olly is correct because there are 60 minutes in 1 hour. $60 + 30 = 90$
- 3b. 2 hours 0 minutes will not fit in the table because 2 hours and 0 minutes is 120 minutes and that is more than 100 minutes.

Expected

- 4b. Various possible answers, for example: 24, 27, 29, 42, 47
- 5b. Mason is correct because there are 60 minutes in 1 hour. $60 + 45 = 105$
- 6b. 1 hour 45 minutes will not fit in the table because 1 hour and 45 minutes is 105 minutes and that is more than 100 minutes.

Greater Depth

- 7b. Various possible answers, for example: 42, 43, 45, 52, 53, 54
- 8b. Jayden is correct because there are 120 minutes in 2 hours. $120 + 25 = 145$
- 9b. 3 hours 20 minutes will not fit in the table because 3 hours and 20 minutes is 200 minutes and that is more than 190 minutes.