Measurement and Geometry:
Converting Time Units: Smaller Units to Larger

Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Descriptions from the Australian Curriculum.

Y5: Measurement and Geometry, Using Units of Measurement

Compare 12- and 24-hour time systems and convert between them (ACMMG110)

Child-Friendly Aim:	**Success Criteria:**	**Resources:**
To read, write, and convert between standard units of time.	I can convert from a smaller unit of time to a larger unit using division. I can use lists of multiples to help me divide. I can write remainders as mixed-unit measurements.	Lesson Pack Individual whiteboards and pens – class set
Key/New Words: Convert, time, days, hours, minutes, seconds, multiples, remainder.		**Preparation:** Differentiated Smaller Units to Larger Activity Sheets - one per child Smaller Units to Larger Challenge Sheet – as required

Prior Learning: It will be helpful if children have learnt how to convert from larger time units to smaller.

Learning Sequence

	**Match It:** Children match equivalent time units, matching larger time units to smaller, as shown on the Lesson Presentation.	
	**Converting from Smaller Units to Larger Units:** Children are reminded that they multiply by 60 or 24 to convert from larger units to smaller. They relate this to the inverse operation, converting from smaller units to larger units by dividing by 24 and 60. They complete charts which show multiples of 24 and 60 to help with division. The Lesson Presentation models how to use these charts to answer conversion questions, including those with remainders, supported by bar models and using the inverse operation to check answers. Children use lists of multiples to convert smaller time units to larger (for example 96 hours = 4 days), including where there is a remainder and the answer is written in a mixed-unit measurement (for example 400 seconds = 6 minutes 40 seconds). Can children convert between standard units of time?	
	**Your Turn:** Children work in pairs to answer the conversion questions, including those with mixed-measurement answers, on the Lesson Presentation. The lists of multiples of 24 and 60 are provided for children to use. Answers appear on separate clicks.	
	**Converting Time Units - Smaller to Larger:** Children complete the differentiated Smaller Units to Larger Activity Sheets, converting from smaller time units to larger units. ★ Lists of multiples of 24 and 60 are provided for support, and children are reminded which to use for which conversion. They convert between units where the answers are whole units. They solve a simple word problem where conversion of time units is required. ★★ Lists of multiples of 24 and 60 are provided for support. Children convert between units where the answers are either whole or mixed units. They 'mark' a homework sheet and solve a word problem where conversion of time units is required. ★★★ Children convert between units where the answers are either whole or mixed units. They 'mark' a homework sheet, explaining the correct answer for any errors. They solve a word problem where conversion of time units is required. An extra Smaller Units to Larger Challenge Sheet is also included.	
	**Read-a-thon:** Children complete a problem involving conversion of time units. Two characters make statements about the information given (times written in different units). Children decide which character (or neither) is correct.	

Exploreit

Timeit: Children time a variety of events using hours and minutes, minutes, seconds and minutes and seconds. They record the events in order of duration.

Writeit: Children write their own time problems, similar to the problem at the end of the lesson, where they need to use conversion of time units to answer the question. They give their problems to other children to solve and agree on the correct answers.

Mathematics

Measurement and Geometry

Sma[redacted]hits to Larger

Aim

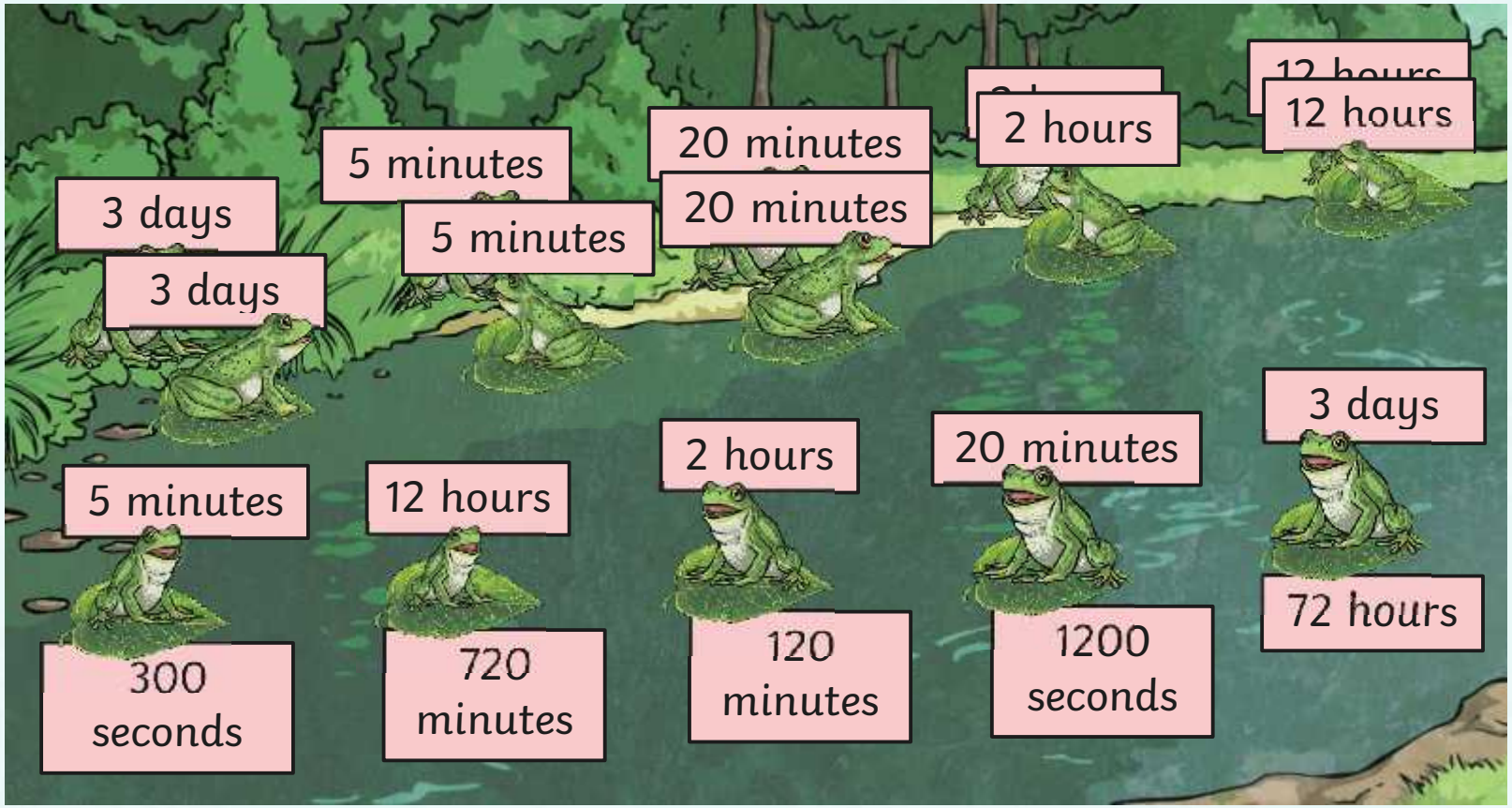
- To read, write, and convert between standard units of time.

Success Criteria

- I can convert from a smaller unit of time to a larger unit using division.
- I can use lists of multiples to help me divide.
- I can write remainders as mixed-unit measurements.

Match It

Match the time measurements at the top of the screen
to their equivalent at the bottom:



Converting from Smaller Units to Larger Units

To convert from larger units to smaller units (e.g. hours to minutes), we multiply by 60 or 24.

What operation do you think we need to use to convert from smaller units to larger units (e.g. minutes to hours)?

We need to divide by 60 or by 24 (the inverse).

What methods could we use to do this?

counting up using lists of multiples **dividing in stages using factor pairs**

a written method of division

Here are some ideas. Did you think of any others?

Which method do you think would be most useful?

You could use any of these methods but today we will use lists of multiples to help us divide easily.

Converting from Smaller Units to Larger Units

Here are all the multiples of 24 up to 10 × 24.

What do you notice about the multiples of 24? Are they similar to any times tables you know?

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	144
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

Converting from Smaller Units to Larger Units

Can you complete the list of multiples of 60?

Hint: what times table could you use to help you?

Multiples of 60	
1 × 60	60
2 × 60	**120**
3 × 60	**180**
4 × 60	**240**
5 × 60	**300**
6 × 60	**360**
7 × 60	**420**
8 × 60	**480**
9 × 60	**540**
10 × 60	**600**

Converting from Smaller Units to Larger Units

600 seconds = **10** minutes

Which list of multiples do we need to help us with this conversion?

To convert seconds to minutes, we need to divide by 60. We can use our list of multiples of 60 to help us.

600 seconds = 10 × 60 seconds

600 seconds = 10 × 1 minute

600 seconds = 10 minutes

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	**600**

600 seconds

seconds to minutes: divide by 60

60 secs (1 min) | 60 secs (1 min) | 60 secs (1 min) | 60 secs (1 min) | 60 secs (1 min) | 60 secs (1 min)

minutes to hours: divide by 60

hours to days: divide by 24

Converting from Smaller Units to Larger Units

144 hours = **6** days

Which list of multiples do we need to help us with this conversion?

There are 24 hours in a day, so we need our list of multiples of 24.

144 hours = 6 × 24 hours

144 hours = 6 × 1 day

144 hours = 6 days

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	**144**
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

144 hours

seconds to minutes: divide by 60 | **minutes to hours:** divide by 60 | **hours to days:** divide by 24

24 hours (1 day) | 24 hours (1 day) | 24 hours (1 day) | 24 hours (1 day)

Converting from Smaller Units to Larger Units

145 minutes = ☐ hours ☐ minutes

Which list of multiples do we need to help us with this conversion?

There are 60 minutes in an hour, so we need our list of multiples of 60.

145 is not a multiple of 60, so we can't divide it by 60 without leaving a remainder.

We can calculate the remainder by subtracting 120 (the highest possible multiple of 60) from 145.

145 – 120 = 25

Multiples of 60	
1 × 60	60
2 × 60	**120**
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

145 minutes

25 minutes

seconds to minutes: divide by 60

60 minutes (1 hour)

minutes to hours: divide by 60

hours to days: divide by 24

Converting from Smaller Units to Larger Units

145 minutes = ☐ hours ☐ minutes

How can we write the answer to this conversion?

Because we have a remainder, we have to write the answer in mixed units.

We add up the number of hours, then write the remainder in minutes.

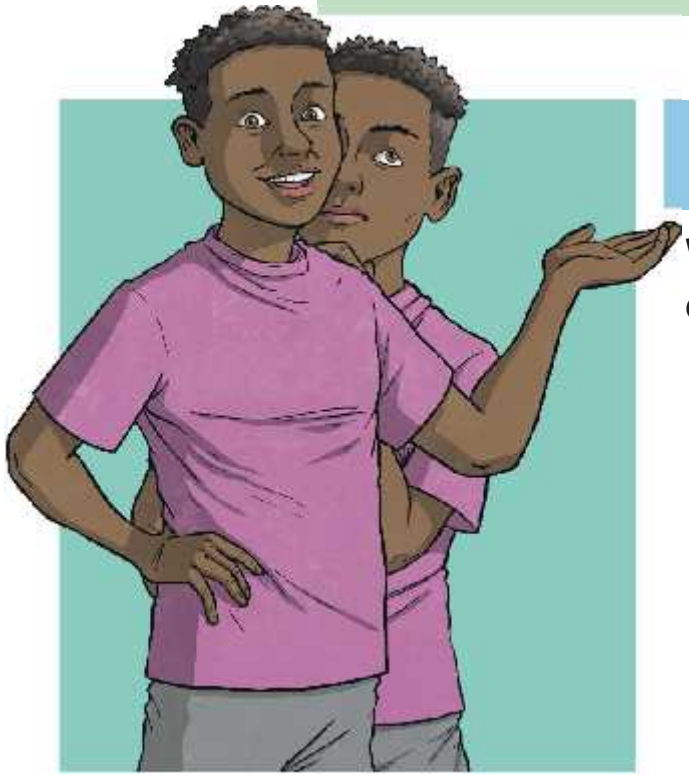
145 minutes = 2 hours 25 minutes

145 minutes	
60 minutes (1 hour)	60 minutes (1 hour)

minutes to hours: divide by 60

Converting from Smaller Units to Larger Units

145 minutes = **2** hours **25** minutes



How can we check our answer?

We can convert our answer back into minutes to check it's right.

2 hours = 2 × 60 minutes = 120 minutes

120 minutes + 25 minutes = 145 minutes

2 hours 25 minutes = 145 minutes

minutes to hours: divide by 60

Converting from Smaller Units to Larger Units

785 minutes = **13** hours **5** minutes

Which list of multiples do we need to help us with this conversion?

There are 60 minutes in an hour, so we need our list of multiples of 60.

What is different about this question?

785 is larger than the largest multiple of 60 in our list.

When this happens, we can add on further multiples to extend the list and find the largest possible multiple.

(10 × 60) + (3 × 60) = 13 × 60 = 780

785 minutes = 13 hours 5 minutes

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	**180**
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	**600**

785 minutes														
60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	60 mins (1 hr)	**5 mins**

seconds to minutes: divide by 60 **minutes to hours:** divide by 60 **hours to days:** divide by 24

Converting from Smaller Units to Larger Units

785 minutes = **13** hours **5** minutes

Is our answer correct?

13 hours = 13 × 60 minutes
= (10 × 60 minutes) + (3 × 60 minutes)

(10 × 60 minutes) + (3 × 60 minutes)
= 600 minutes + 180 minutes = 780 minutes

780 minutes + 5 minutes = 785 minutes

785 minutes

13 hours 5 minutes = 785 minutes

minutes to hours: divide by 60

Your Turn

e the lists of multiples to help you
culate these conversions. Draw bar
dels to help if needed. Remember to
rk backwards to check your answers.

1) 300 seconds = **5** minutes

2) 420 minutes = **7** hours

3) 120 hours = **5** days

4) 40 hours = **1** day **16** hours

5) 400 seconds **6** minutes **40** seconds

6) 450 minutes = **7** hours **30** minutes

7) 155 hours = **6** days **11** hours

8) 368 hours = **15** days **8** hours

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	144
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

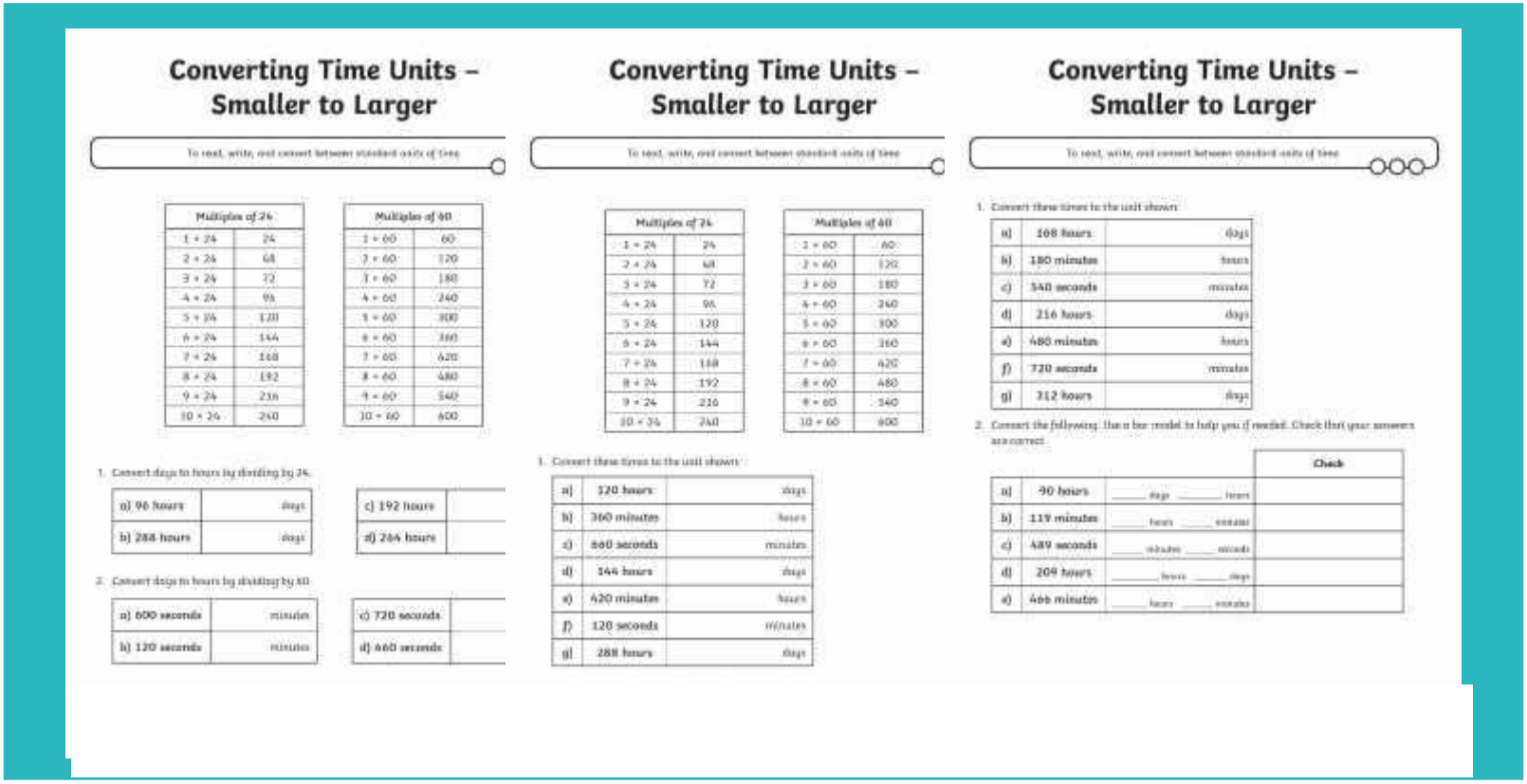
seconds to minutes: divide by 60

minutes to hours: divide by 60

hours to days: divide by 24

Converting Time Units – Smaller to Larger

Use your fabulous time conversion skills to complete these activity sheets:



Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	144
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

1. Convert days to hours by dividing by 24.

a) 96 hours	days
b) 288 hours	days
c) 192 hours	
d) 264 hours	

2. Convert days to hours by dividing by 60.

a) 600 seconds	minutes
b) 120 seconds	minutes
c) 720 seconds	
d) 660 seconds	

Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
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7 × 24	168
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10 × 24	240

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

1. Convert these times to the unit shown.

a)	120 hours	days
b)	360 minutes	hours
c)	660 seconds	minutes
d)	144 hours	days
e)	420 minutes	hours
f)	120 seconds	minutes
g)	288 hours	days

Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time

1. Convert these times to the unit shown.

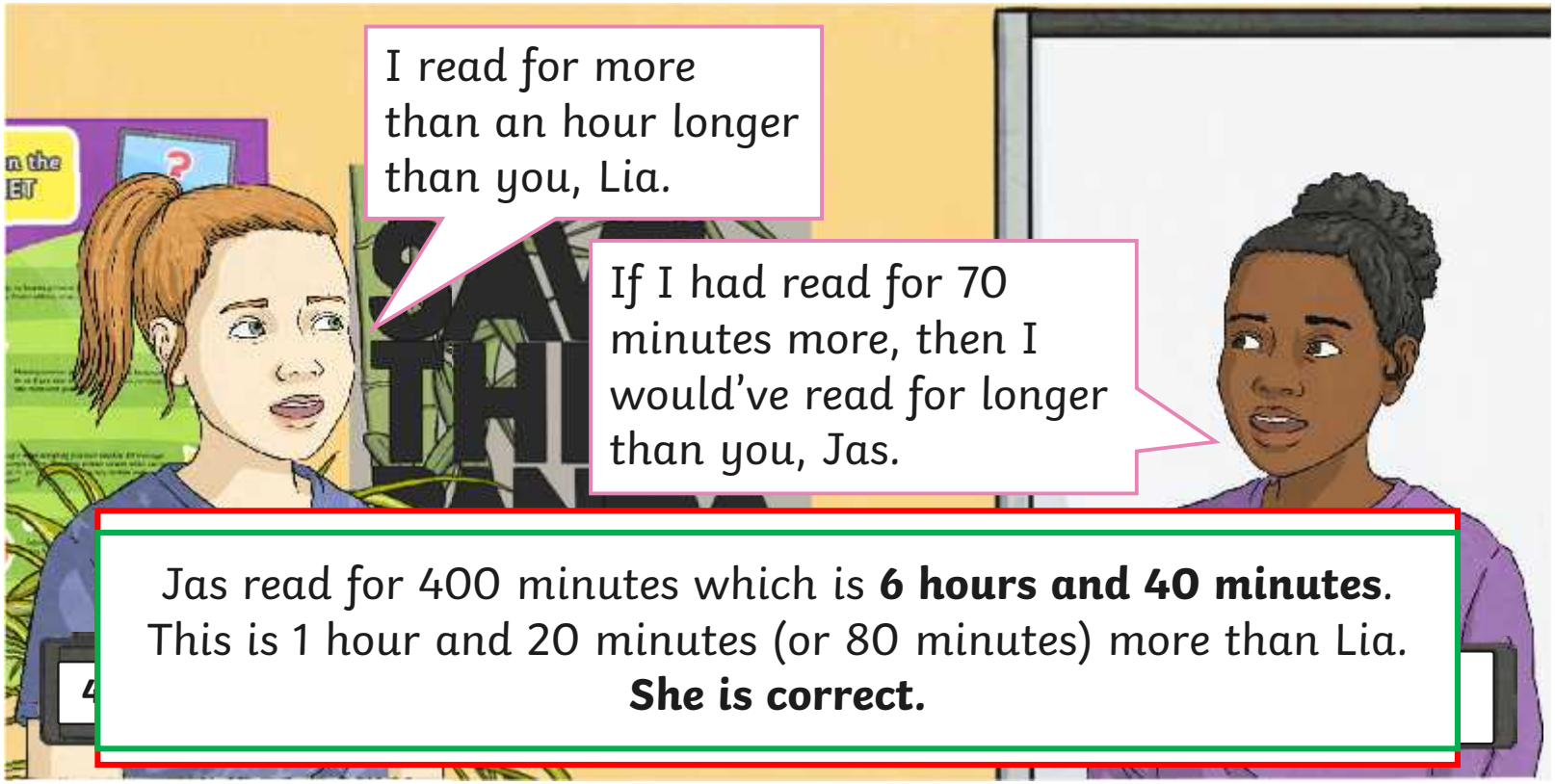
a)	168 hours	days
b)	180 minutes	hours
c)	540 seconds	minutes
d)	216 hours	days
e)	480 minutes	hours
f)	720 seconds	minutes
g)	312 hours	days

2. Convert the following. Use a box model to help you if needed. Check that your answers are correct.

			Check
a)	90 hours	____ days ____ hours	
b)	119 minutes	____ hours ____ minutes	
c)	489 seconds	____ minutes ____ seconds	
d)	209 hours	____ hours ____ days	
e)	466 minutes	____ hours ____ minutes	

Read-a-thon

In a read-a-thon at school, Jas recorded the time she read for in minutes. Lia recorded her time in hours and minutes.



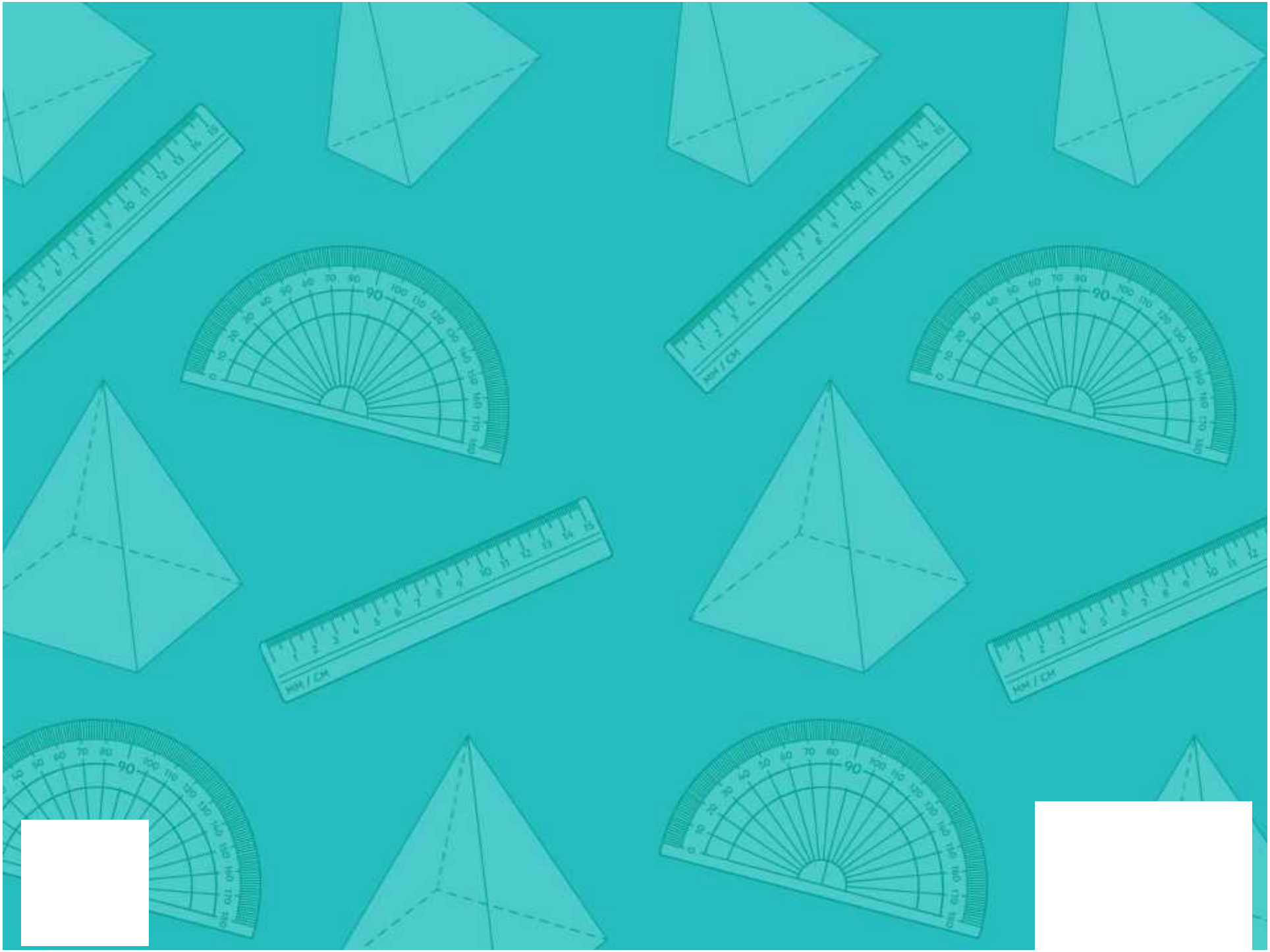
Jas read for 400 minutes which is **6 hours and 40 minutes**.
This is 1 hour and 20 minutes (or 80 minutes) more than Lia.
She is correct.

Aim

- To read, write, and convert between standard units of time.

Success Criteria

- I can convert from a smaller unit of time to a larger unit using division.
- I can use lists of multiples to help me divide.
- I can write remainders as mixed-unit measurements.



Aim: To read, write, and convert between standard units of time.				**Date:**					
				Delivered By:			**Support:**		
Success Criteria	**Me**	**Friend**	**Teacher**	**T**	**PPA**	**S**	**I**	**AL**	**GP**
I can convert from a smaller unit of time to a larger unit using division.				**Notes/Evidence**					
I can use lists of multiples to help me divide.									
I can write remainders as mixed-unit measurements.									
Next Steps) _____) _____									

T	Teacher	**I**	Independent
PPA	Planning, Preparation and Assessment	**AL**	Adult Led
S	Supply	**GP**	Guided Practice

Aim: To read, write, and convert between standard units of time.				**Date:**					
				Delivered By:			**Support:**		
Success Criteria	**Me**	**Friend**	**Teacher**	**T**	**PPA**	**S**	**I**	**AL**	**GP**
I can convert from a smaller unit of time to a larger unit using division.				**Notes/Evidence**					
I can use lists of multiples to help me divide.									
I can write remainders as mixed-unit measurements.									
Next Steps) _____) _____									

T	Teacher	**I**	Independent
PPA	Planning, Preparation and Assessment	**AL**	Adult Led
S	Supply	**GP**	Guided Practice

Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time.

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	144
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

1. Convert days to hours by dividing by 24.

a) 96 hours	days
b) 288 hours	days

c) 192 hours	days
d) 264 hours	days

2. Convert days to hours by dividing by 60.

a) 600 seconds	minutes
b) 120 seconds	minutes

c) 720 seconds	minutes
d) 660 seconds	minutes

3. Convert minutes to hours. Which list of multiples will you need to use?

a) 60 minutes	hours
b) 180 minutes	hours

c) 240 minutes	hours
d) 300 minutes	hours

4. These conversions are mixed up, so look at each one carefully!

a) 216 hours	days
b) 360 minutes	hours
c) 600 seconds	minutes

d) 420 minutes	hours
e) 300 seconds	minutes
f) 168 hours	days

5. On Monday, Billie did homework for 1 hour 25 minutes. On Tuesday, she did homework for 75 minutes. She said she had worked longer on Monday than Tuesday. Was she right? Show how you know.

Converting Time Units – Smaller to Larger **Answers**

1.

a) 96 hours	**4 days**
b) 288 hours	**12 days**

c) 192 hours	**8 days**
d) 264 hours	**11 days**

2.

a) 600 seconds	**10 minutes**
b) 120 seconds	**2 minutes**

c) 720 seconds	**12 minutes**
d) 660 seconds	**11 minutes**

3.

a) 60 minutes	**1 hour**
b) 180 minutes	**3 hours**

c) 240 minutes	**4 hours**
d) 300 minutes	**5 hours**

4.

a) 216 hours	**9 days**
b) 360 minutes	**6 hours**
c) 600 seconds	**10 minutes**

d) 420 minutes	**7 hours**
e) 300 seconds	**5 minutes**
f) 168 hours	**7 days**

5. **Billie was right. Children's responses should show that on Monday she completed 85 minutes worth of homework; or that on Tuesday, she completed 1 hour 15 minutes.**

Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time.

Multiples of 24	
1 × 24	24
2 × 24	48
3 × 24	72
4 × 24	96
5 × 24	120
6 × 24	144
7 × 24	168
8 × 24	192
9 × 24	216
10 × 24	240

Multiples of 60	
1 × 60	60
2 × 60	120
3 × 60	180
4 × 60	240
5 × 60	300
6 × 60	360
7 × 60	420
8 × 60	480
9 × 60	540
10 × 60	600

1. Convert these times to the unit shown:

a)	**120 hours**	days
b)	**360 minutes**	hours
c)	**660 seconds**	minutes
d)	**144 hours**	days
e)	**420 minutes**	hours
f)	**120 seconds**	minutes
g)	**288 hours**	days

2. Convert the following. Use a bar model to help you if needed. Check that your answers are correct.

			Check
a)	**50 hours**	_____ days _____ hours	
b)	**190 minutes**	_____ hours _____ minutes	
c)	**425 seconds**	_____ minutes _____ seconds	
d)	**116 hours**	_____ days _____ hours	
e)	**684 minutes**	_____ hours _____ minutes	

3. Here is a page of Harvinder's homework. He thinks he will get at least 4 correct out of 6. Mark his work!

Question		Answer
1)	**300 minutes**	5 hours
2)	**192 hours**	7 days
3)	**240 seconds**	4 minutes
4)	**125 hours**	5 days 2 hours
5)	**315 minutes**	5 hours 15 minutes
6)	**130 seconds**	2 minutes 10 seconds

Did Harvinder achieve his target? _____

4. Gina's big brother is revising for exams. He has counted how long he spent revising in the week. Here are the times he revised during a school week. His teacher says he should aim to revise for at least 5 hours across the week. Has he achieved this?

Monday	Tuesday	Wednesday	Thursday	Friday
1 hour 40 minutes	45 minutes	1 hour 10 minutes	25 minutes	55 minutes

Converting Time Units – Smaller to Larger **Answers**

1.

a)	120 hours	**5 days**
b)	360 minutes	**6 hours**
c)	660 seconds	**11 minutes**
d)	144 hours	**6 days**
e)	420 minutes	**7 hours**
f)	120 seconds	**2 minutes**
g)	288 hours	**12 days**

2.

a)	50 hours	**2 days 2 hours**	**Checks show correct answers, e.g.** **a) 2 × 24 = 48 + 2 = 50**
b)	190 minutes	**3 hours 10 minutes**	
c)	425 seconds	**7 minutes 5 seconds**	
d)	116 hours	**4 days 20 hours**	
e)	684 minutes	**11 hours 24 minutes**	

3.

Question		Answer	
1)	300 minutes	5 hours	✓
2)	192 hours	7 days	✗
3)	240 seconds	4 minutes	✓
4)	125 hours	5 days 2 hours	✗
5)	315 minutes	5 hours 15 minutes	✓
6)	130 seconds	2 minutes 10 seconds	✓

Did Harvinder achieve his target? **Yes**

4. **No, he did not achieve the revision target as he only studied for 4 hours and 55 minutes.**

Converting Time Units – Smaller to Larger

To read, write, and convert between standard units of time.

1. Convert these times to the unit shown:

a)	**168 hours**	days
b)	**180 minutes**	hours
c)	**540 seconds**	minutes
d)	**216 hours**	days
e)	**480 minutes**	hours
f)	**720 seconds**	minutes
g)	**312 hours**	days

2. Convert the following. Use a bar model to help you if needed. Check that your answers are correct.

			Check
a)	**90 hours**	_____ days _____ hours	
b)	**119 minutes**	_____ hours _____ minutes	
c)	**489 seconds**	_____ minutes _____ seconds	
d)	**209 hours**	_____ days _____ hours	
e)	**466 minutes**	_____ hours _____ minutes	

3. Here is a page of Paula's homework. Mark her work! If she makes any mistakes, show her how she could have achieved the correct answer.

Question		Answer	Correction
1)	**420 minutes**	8 hours	
2)	**264 hours**	11 days	
3)	**780 seconds**	13 minutes	
4)	**278 hours**	11 days 10 hours	
5)	**594 seconds**	9 minutes 54 seconds	
6)	**756 seconds**	11 minutes 36 seconds	

4. An athlete trains on 5 days each week. He aims to train for a minimum of 400 minutes in total. Here is what he completed in the first four days. How long does he need to train for on the last day to ensure he achieves his target? Complete the table, writing your answer in hours and minutes.

Day 1	Day 2	Day 3	Day 4	Day 5
75 minutes	1 hour 20 minutes	35 minutes	1 hour 5 minutes	

Converting Time Units – Smaller to Larger **Answers**

1.

a)	168 hours	**7 days**
b)	180 minutes	**3 hours**
c)	540 seconds	**9 minutes**
d)	216 hours	**9 days**
e)	480 minutes	**8 hours**
f)	720 seconds	**12 minutes**
g)	312 hours	**13 days**

2.

a)	90 hours	**3 days 18 hours**	**Checks show correct answers, e.g.** **a) 3 × 24 = 72 + 18 = 90**
b)	119 minutes	**1 hour 59 minutes**	
c)	489 seconds	**8 minutes 9 seconds**	
d)	209 hours	**8 days 17 hours**	
e)	466 minutes	**7 hours 46 minutes**	

3.

Question		Answer		Correction
1)	420 minutes	8 hours	✗	**7 × 60 = 420 so the answer should be 7 hours.**
2)	264 hours	11 days	✓	
3)	780 seconds	13 minutes	✓	
4)	278 hours	11 days 10 hours	✗	**11 × 24 = 264 278 – 264 = 14 so the answer should be 11 days 14 hours.**
5)	594 seconds	9 minutes 54 seconds	✓	
6)	756 seconds	11 minutes 36 seconds	✗	**12 × 60 = 720 756 – 720 = 36 so the answer should be 12 minutes 36 seconds.**

4.

Day 1	Day 2	Day 3	Day 4	Day 5
75 minutes	1 hour 20 minutes	35 minutes	1 hour 5 minutes	**2 hours 25 minutes**

What's the Date?

1. Today is 3rd October; the time is 8:00 p.m. It is my birthday in 1350 hours. What date is my birthday?

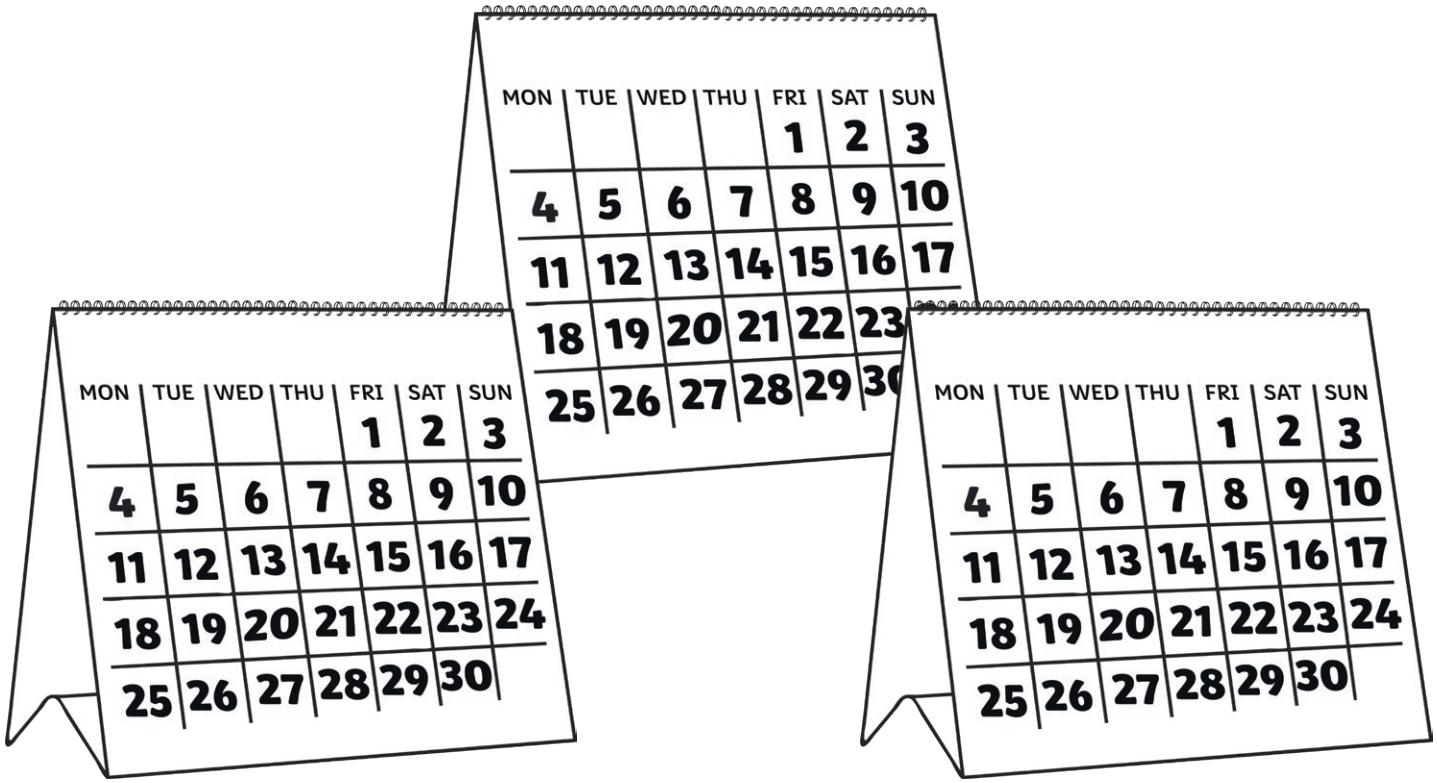
_____

2. It is one minute after midnight and the date is 21st November. We are getting our new puppy in 30 000 minutes from now. What date will this be?

_____

3. My family are coming to visit from England in 540 000 seconds! Today it is 1st December; it is 11 a.m. What date are my family due to arrive?

_____



What's the Date? **Answers**

1. **29th November**
2. **11th December**
3. **7th December**

Measurement and Geometry | Smaller Units to Larger

To read, write, and convert between standard units of time.		
I can convert from a smaller unit of time to a larger unit using division.		
I can use lists of multiples to help me divide.		
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Measurement and Geometry | Smaller Units to Larger

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Measurement and Geometry | Smaller Units to Larger

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