

Measurement and Geometry:

Using Units of Measurement: Countdown

Australian Curriculum

This lesson plan could be used to support the teaching and learning of the following Content Description 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: To solve problems involving converting between weeks and days.	Success Criteria: I can convert between days to weeks and days. I can read and interpret calendars. I can solve a problem counting from one date to another, converting between weeks and days.	Resources: Lesson Pack Individual whiteboards and pens – class set
	Key/New Words: Convert, weeks, days, date, months.	Preparation: Countdown Activity Sheets – one per child Calendar Sheet – as required

Prior Learning: It will be helpful if children have used calendars and know the number of days in months.

Learning Sequence

	Converting Between Weeks and Days: Children convert weeks and days into days, by multiplying by 7 and they convert days into weeks and days, by dividing by 7.				
	End of Term Countdown: Use the Lesson Presentation to demonstrate how to count from one date to another. Answers are given in days. Children work through questions.				
	Holiday Countdown: Children calculate the amount of time from one date to another, which goes over a few months. They write answers in days and weeks and days. Can children calculate the amount of time from one date to another?				
	Countdown: Children complete the Countdown Activity Sheets using the Calendar Sheet , solving problems which involve converting between weeks and days and days. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"> Children solve problems, calculating the amount of days and weeks or just days from one date to another. The dates are in two consecutive months and below eight weeks difference. </td> <td style="width: 33%; border: none;"> Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to three consecutive months and below ten weeks difference. </td> <td style="width: 33%; border: none;"> Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to five consecutive months and below thirteen weeks difference. </td> </tr> </table>	Children solve problems, calculating the amount of days and weeks or just days from one date to another. The dates are in two consecutive months and below eight weeks difference.	Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to three consecutive months and below ten weeks difference.	Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to five consecutive months and below thirteen weeks difference.	
Children solve problems, calculating the amount of days and weeks or just days from one date to another. The dates are in two consecutive months and below eight weeks difference.	Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to three consecutive months and below ten weeks difference.	Children solve problems, calculating the amount of days and weeks and days from one date to another. The dates are up to five consecutive months and below thirteen weeks difference.			
	Puzzle It: Children solve two puzzles, working out possible dates from clues. They write their own similar puzzles.				

Exploreit

Calculateit: Children work out the difference in dates for key dates of their own family: for example, birthdays, holiday dates, Mother's Day.

Explainit: Children produce a poster, explaining how to calculate the amount of time from one date to another. They can use calendars which they annotate to help their explanation.



Mathematics

Measurement and Geometry

Countdown



Aim

- To solve problems involving converting between weeks and days.

Success Criteria

- I can convert between days to weeks and days.
- I can read and interpret calendars.
- I can solve a problem counting from one date to another, converting between weeks and days.

Converting Between Weeks and Days



There are 7 days in a week.
How many days are there in...

2 weeks?

Converting Between Weeks and Days



To calculate the number of days altogether, first

Complete the table by calculating the total number of days.

e.g. 3 weeks 6 days

4 weeks and 2 days	5 weeks and 6 days	3 weeks and 4 days	7 weeks and 6 days	3 weeks and 2 days
30 days	41 days	25 days	55 days	23 days

Converting Between Weeks and Days



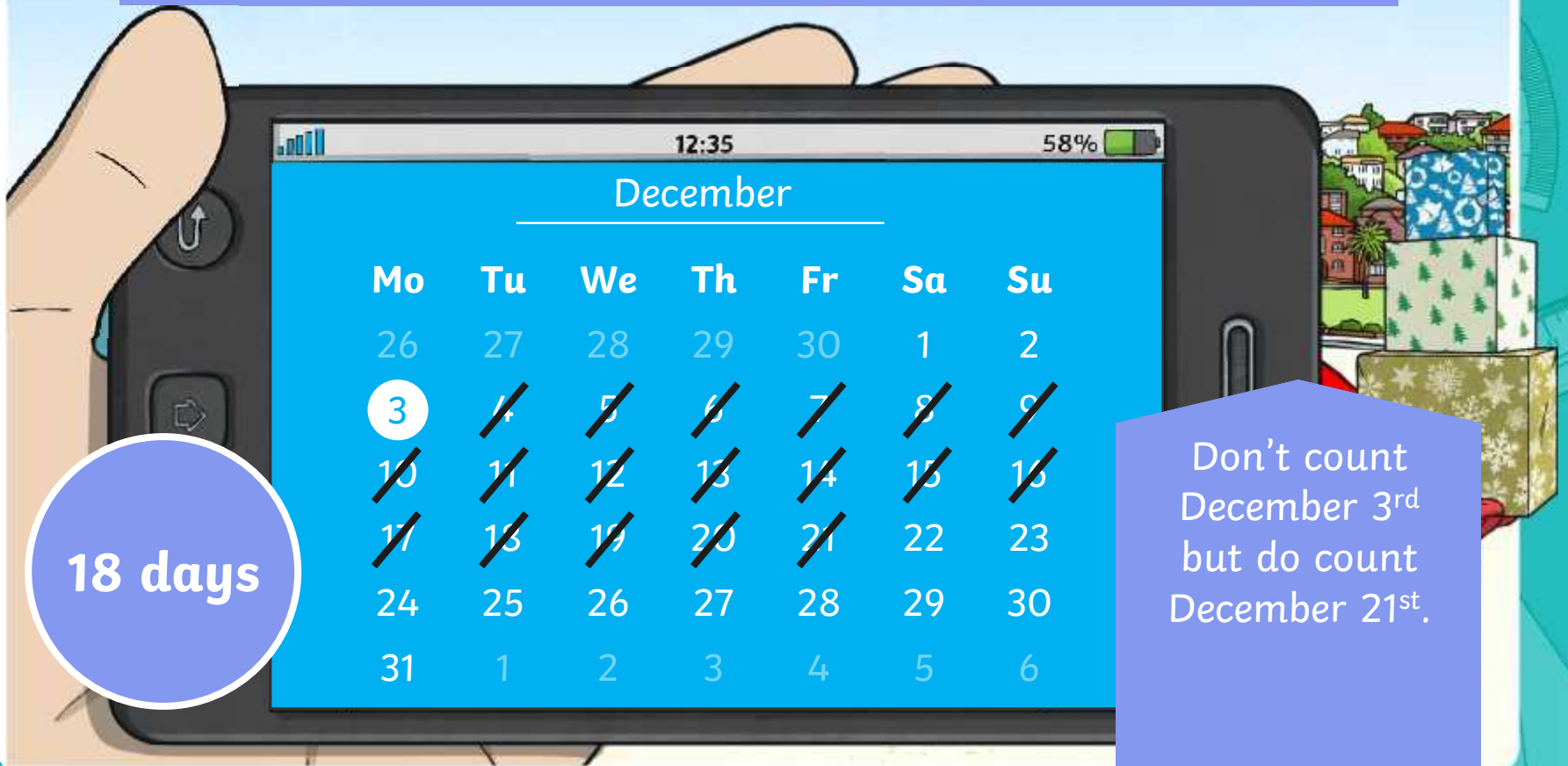
To calculate the number of weeks in a large number of days, first divide by 7 to find the number of whole weeks, the remainder

50 days	66 days	39 days	58 days	44 days
7 weeks and 1 day	9 weeks and 3 days	5 weeks and 4 days	8 weeks and 2 days	6 weeks and 2 days

End of Term Countdown



Today is December 3rd. St Peter's Primary School breaks up for Christmas on December 21st. How many days is this?



18 days

Don't count December 3rd but do count December 21st.

End of Term Countdown



Today is February 19th. Carter's Primary School breaks up for Easter on March 22nd. How many days is this?

We could count single days.

Or to speed things up, count whole weeks on the calendar first, then the single days.

						Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4

There are 3 whole weeks:

$$7 \times 3 = 21$$

and 10 single days.

$$21 + 10 = 31 \text{ days}$$

Mo	Tu	We	Th	Fr	Sa	Su
26	27	28	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

End of Term Countdown



Today is June 6th. Your school breaks up for holidays on July 19th. How many days is this? Use whichever method you want to calculate this.

43 days

June						
Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

July						
Mo	Tu	We	Th	Fr	Sa	Su
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Holiday Countdown



Today is April 19th. You are going on holiday on August 21st. How many days away is it? (Unfortunately, someone has dropped sun cream on the calendar.)

August						
Mo	Tu	We	Th	Fr	Sa	Su
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

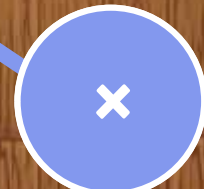
Can you work out how many days away it is to your holiday?

There are 31 days in April. You know how many days there are in May, June and July, so you do need to work out how many days there are from the start of August until your holiday.

There are 31 days in April. You know how many days there are in May, June and July, so you do need to work out how many days there are from the start of August until your holiday.

There are 31 days in April. You know how many days there are in May, June and July, so you do need to work out how many days there are from the start of August until your holiday.

There are 31 days in April. You know how many days there are in May, June and July, so you do need to work out how many days there are from the start of August until your holiday.



Holiday Countdown



Today is June 8th. You are going on holiday on October 4th.
 This is 118 days. How would you write this in weeks and days?

August						
Mo	Tu	We	Th	Fr	Sa	Su
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

$118 \div 7$
 $= 16$ remainder 6
There are 22
~~16 weeks and 6~~
~~days left in~~
June. 31 days
~~31 + 31 + 30 + 22 + 4~~
 You count also
~~31 days~~
 $= 118$ days
 count weeks
There are 4
days in
October.

✗

✗

✗

✗

✗



Holiday Countdown



Name	Today's Date	Time Left until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Christian	5 th March	3 weeks 2 days	23 days	28th March

Here is part of a table showing details of children's holidays. Fill in the missing information.

▼ Help

Thirty days have September,
April, June and November.
All the rest have 31,
Except for February, which has 28 days clear,
And 29 each leap year.

The number of days left is:

Write the date:

12th March

19th March

26th March

28th March

Holiday Countdown



Here is part of a table showing details of children's holidays. Fill in the missing information.

Name	Today's Date	Time Left until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Christian	5 th March	3 weeks 2 days	23 days	28 th March
Tebukah	21 st May	5 weeks 5 days	40 days	30th June
Gemma	20 th June	6 weeks 1 day	43 days	2nd August
Stephanie	12 th July	7 weeks 4 days	53 days	3rd September

Countdown



Countdown

To solve problems involving converting between weeks and days.

1. Complete this table, filling in the missing conversions.

Days	Weeks and Days
24 days	_____ weeks and _____ days
_____ days	7 weeks and 6 days
_____ days	5 weeks and 4 days
34 days	_____ weeks and _____ days
52 days	_____ weeks and _____ days
_____ days	5 weeks and 3 days
66 days	_____ weeks and _____ days
_____ days	8 weeks and 1 day
57 days	_____ weeks and _____ days
_____ days	8 weeks and 5 days

2. Today is 14th November. You break up on 20th December. How many days away is this?
_____ days

3. Today is 19th April. You go on holiday on 22nd June. How many weeks and days away is this?
_____ weeks and _____ days



Use your fabulous skills to complete this activity sheet.

Puzzle It



It is the month of June.



June						
Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1
2	3	4	5	6	7	8

Yesterday
Wednesday
dates

Write your
own puzzle!

The possible dates be are:
Tuesday
Tuesday
Tuesday 19th June
Tuesday 26th June

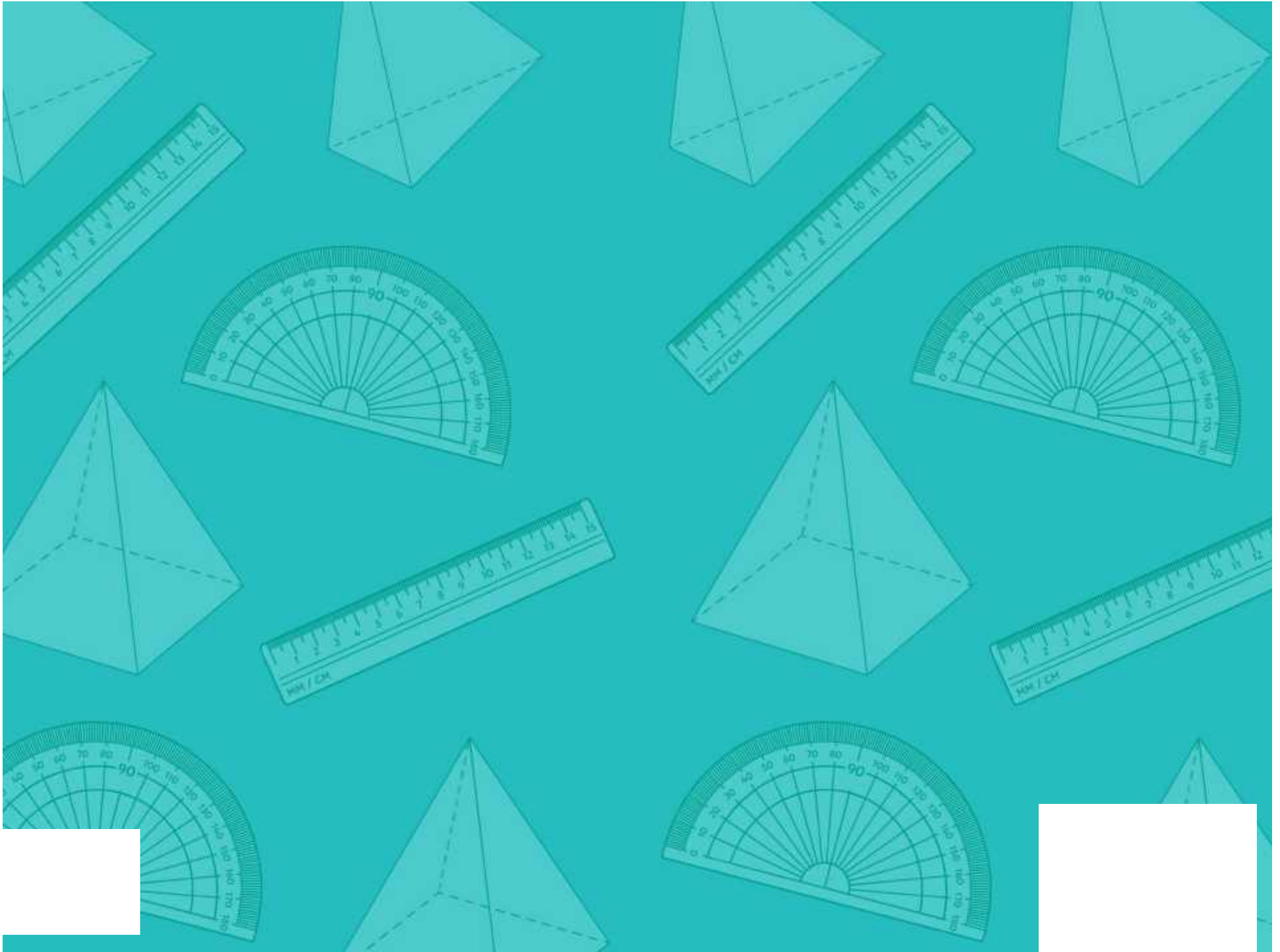
Aim



- To solve problems involving converting between weeks and days.

Success Criteria

- I can convert between days to weeks and days.
- I can read and interpret calendars.
- I can solve a problem counting from one date to another, converting between weeks and days.



Aim: To solve problems involving converting between weeks and days.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can convert between days to weeks and days.				Notes/Evidence					
I can read and interpret calendars.									
I can solve a problem counting from one date to another, converting between weeks and days.									
Next Steps									
) _____									
) _____									

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

Aim: To solve problems involving converting between weeks and days.				Date:					
				Delivered By:			Support:		
Success Criteria	Me	Friend	Teacher	T	PPA	S	I	AL	GP
I can convert between days to weeks and days.				Notes/Evidence					
I can read and interpret calendars.									
I can solve a problem counting from one date to another, converting between weeks and days.									
Next Steps									
) _____									
) _____									

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

Calendar Sheet

January						
Mo	Tu	We	Th	Fr	Sa	Su
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

February						
Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	1	2	3

March						
Mo	Tu	We	Th	Fr	Sa	Su
25	26	27	28	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

April						
Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5

May						
Mo	Tu	We	Th	Fr	Sa	Su
29	30	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2

June						
Mo	Tu	We	Th	Fr	Sa	Su
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

July						
Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

August						
Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

September						
Mo	Tu	We	Th	Fr	Sa	Su
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

October						
Mo	Tu	We	Th	Fr	Sa	Su
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

November						
Mo	Tu	We	Th	Fr	Sa	Su
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

December						
Mo	Tu	We	Th	Fr	Sa	Su
25	26	27	28	29	30	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31	1	2	3	4	5

Countdown

To solve problems involving converting between weeks and days.



1. Complete this table, converting days to weeks and days.

16 days	_____ weeks and _____ days
22 days	_____ weeks and _____ days
33 days	_____ weeks and _____ days
41 days	_____ weeks and _____ days
39 days	_____ weeks and _____ days

2. Complete this table, converting from weeks and days to days.

3 weeks and 6 days	_____ days
2 weeks and 5 days	_____ days
5 weeks and 1 day	_____ days
4 weeks and 6 days	_____ days
3 weeks and 2 days	_____ days

3. Today is 9th December. If you break up from school on 21st December, how many days away is this?

_____ days

4. Today is 21st May. You go on holiday on June 8th. How many weeks and days away is this?
 _____ weeks and _____ days

5. It is Paulette’s birthday on 26th June. Today it is 13th May. Is her birthday more or less than 6 weeks away? Show how you worked it out.

6. Here is a table showing details of children’s holidays. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Jyoti	11 th May	2 weeks and 4 days	18 days	
Stefan	16 th April	3 weeks and 1 day		
Petra	24 th June		40 days	

Countdown Answers

1. Complete this table, converting days to weeks and days.

16 days	2 weeks and 2 days
22 days	3 weeks and 1 day
33 days	4 weeks and 5 days
41 days	5 weeks and 6 days
39 days	5 weeks and 4 days

2. Complete this table, converting from weeks and days to days.

3 weeks and 6 days	27 days
2 weeks and 5 days	19 days
5 weeks and 1 day	36 days
4 weeks and 6 days	34 days
3 weeks and 2 days	23 days

3. Today is 9th December. If you break up from school on 21st December, how many days away is this?
12 days
4. Today is 21st May. You go on holiday on June 8th. How many weeks and days away is this?
2 weeks and 4 days
5. It is Paulette's birthday on 26th June. Today it is 13th May. Is her birthday more or less than 6 weeks away? Show how you worked it out.
It is more than 6 weeks away. 6 weeks from 13th May is 24th June. (Children may have different reasoning to calculate the answer.)
6. Here is a table showing details of children's holidays. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Jyoti	11 th May	2 weeks and 4 days	18 days	29 th May
Stefan	16 th April	3 weeks and 1 day	22 days	8 th May
Petra	24 th June	5 weeks and 5 days	40 days	3 rd August

Countdown

To solve problems involving converting between weeks and days.



1. Complete this table, filling in the missing conversions.

Days	Weeks and Days
24 days	_____ weeks and _____ days
_____ days	2 weeks and 6 days
_____ days	5 weeks and 4 days
34 days	_____ weeks and _____ days
52 days	_____ weeks and _____ days
_____ days	5 weeks and 3 days
66 days	_____ weeks and _____ days
_____ days	6 weeks and 1 day
57 days	_____ weeks and _____ days
_____ days	8 weeks and 5 days

2. Today is 14th November. You break up on 20th December. How many days away is this?
_____ days
3. Today is 19th April. You go on holiday on 22nd June. How many weeks and days away is this?
_____ weeks and _____ days

4. Which of these is the greater time difference? Show how you know.

5th April to 23rd May or 2nd May to 28th June

5. Here is a table showing details of children’s holidays. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Danyaal	13 th April	4 weeks and 4 days		
Stevie	27 th March		46 days	
Lindsey	30 th May		66 days	
Caroline	3 rd June	6 weeks and 3 days		
Terri	14 th June		73 days	

Countdown Answers

1. Complete this table, filling in the missing conversions.

Days	Weeks and Days
24 days	3 weeks and 3 days
20 days	2 weeks and 6 days
39 days	5 weeks and 4 days
34 days	4 weeks and 6 days
52 days	7 weeks and 3 days
38 days	5 weeks and 3 days
66 days	9 weeks and 3 days
43 days	6 weeks and 1 day
57 days	8 weeks and 1 day
61 days	8 weeks and 5 days

2. Today is 14th November. You break up on 20th December. How many days away is this?
36 days
3. Today is 19th April. You go on holiday on 22nd June. How many weeks and days away is this?
9 weeks and **1** day
4. Which of these is the greater time difference? Show how you know.
5th April to 23rd May or 2nd May to 28th June
2nd May to 28th June is the greater time difference.
From 5th April to 23rd May is 48 days.
From 2nd May to 28th June is 57 days.

5. Here is a table showing details of children's holidays. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday
Danyaal	13 th April	4 weeks and 4 days	32 days	15th May
Stevie	27 th March	6 weeks and 4 days	46 days	12th May
Lindsey	30 th May	9 weeks and 3 days	66 days	4th August
Caroline	3 rd June	6 weeks and 3 days	45 days	18th July
Terri	14 th June	10 weeks and 3 days	73 days	26th August

Countdown

To solve problems involving converting between weeks and days.



1. The friends have calculated how long until their birthdays. Put them in order from soonest to farthest away.

Time until birthday	Name	Name
50 days	Jackie	1.
4 weeks and 4 days	Barry	2.
8 weeks and 2 days	Caroline	3.
43 days	Luke	4.
88 days	Sam	5.
9 weeks and 3 days	Nicky	6.
69 days	Jessica	7.
10 weeks and 1 day	Sarah	8.
75 days	Adele	9.
8 weeks and 6 days	Mark	10.

2. Today is 20th October. You break up on 21st December. How many days away is this?
How many school days?

_____ days in total, _____ school days

3. Today is 11th March. You go on holiday on 5th July. How many weeks and days away is this?

_____ weeks and _____ days

4. Three friends are waiting to go on holiday. Today it is 3rd April.

Petra says her holiday is next month so it must be less than 31 days to wait.
She leaves on 29th May.

Carlos says it feels like ages until his holiday in 43 days.

Suzie says her holiday is in 7 weeks and 4 days and she needs to start packing.

Who has to wait the longest until they go on holiday? Show how you know.

5. Here is a table showing details of children’s holidays. They are each going to save some money every day to spend on their holiday. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday	Daily Pocket Money	Maximum Savings
Sunita	15 th May	5 weeks and 2 days			\$1	
Pamela	16 th March		64 days		50c	
John		11 weeks and 3 days		11 th August		\$40
Ria	15 th April			28 th June	50c	
Tasweer			58 days	29 th August		\$5.80

Countdown Answers

1. The friends have calculated how long until their birthdays. Put them in order from soonest to farthest away.

Time until birthday	Name	Name
50 days	Jackie	1. Barry
4 weeks and 4 days	Barry	2. Luke
8 weeks and 2 days	Caroline	3. Jackie
43 days	Luke	4. Caroline
88 days	Sam	5. Mark
9 weeks and 3 days	Nicky	6. Nicky
69 days	Jessica	7. Jessica
10 weeks and 1 day	Sarah	8. Sarah
75 days	Adele	9. Adele
8 weeks and 6 days	Mark	10. Sam

2. Today is 20th October. You break up on 21st December. How many days away is this?
How many school days?

62 days in total, **45** school days

3. Today is 11th March. You go on holiday on 5th July. How many weeks and days away is this?

16 weeks and **4** days

4. Three friends are waiting to go on holiday. Today it is 3rd April.

Petra says her holiday is next month so it must be less than 31 days to wait.
She leaves on 29th May.

Carlos says it feels like ages until his holiday in 43 days.

Suzie says her holiday is in 7 weeks and 4 days and she needs to start packing.

Who has to wait the longest until they go on holiday? Show how you know.

Petra has to wait the longest.

Petra has to wait 56 days (or 8 weeks) until 29th May.

Carlos has to wait 43 days (or 6 weeks 1 day) until 16th May.

Suzie has to wait 53 days (or 7 weeks 4 days) until 26th May.

5. Here is a table showing details of children's holidays. They are each going to save some money every day to spend on their holiday. Fill in the missing information.

Name	Booking Date	Time until Holiday in Days and Weeks	Days until Holiday	Date of Holiday	Daily Pocket Money	Maximum Savings
Sunita	15 th May	5 weeks and 2 days	37 days	21st June	\$1	\$37
Pamela	16 th March	9 weeks and 1 day	64 days	19th May	50c	\$32
John	23rd May	11 weeks and 3 days	80 days	11 th August	50c	\$40
Ria	15 th April	10 weeks and 4 days	74 days	28 th June	50c	\$37
Tasweer	2nd July	8 weeks and 2 days	58 days	29 th August	10c	\$5.80

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		

Measurement and Geometry | Countdown

To solve problems involving converting between weeks and days.		
I can convert between days to weeks and days.		
I can read and interpret calendars.		
I can solve a problem counting from one date to another, converting between weeks and days.		