Year 2 Maths Multiplication and Division

Learning from Home Activity Booklet

Year 2 Programme of Study – Multiplication and Division

Statutory requirements	Activity Sheet	Page Number	Notes
Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers.	Weekly Time Challenge	2	
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.	Array for Maths!	3	
Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.	Commutativity	4	
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	Multiplication Division Circus Solve It!	5 6 7	
Answers			

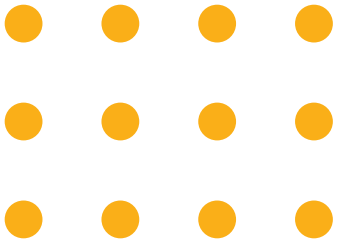
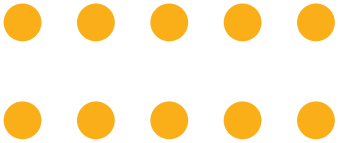
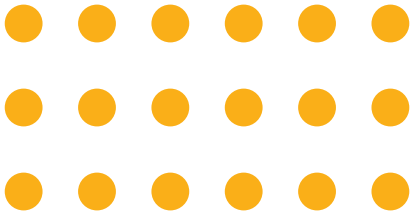
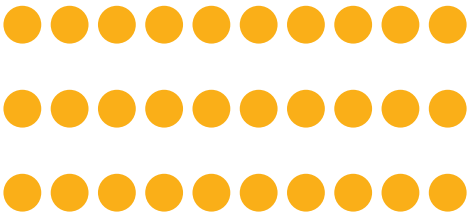
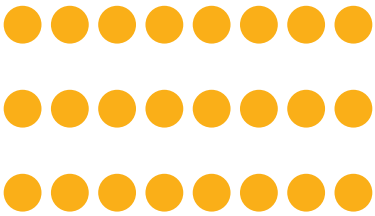
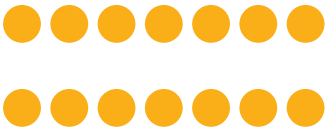
Know Your Facts

Ask your helper to time you for 60 seconds. Complete as many of the questions in the first column as you can, then mark them together. Next week, try and beat your score using the next column.

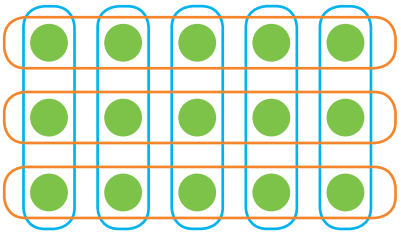
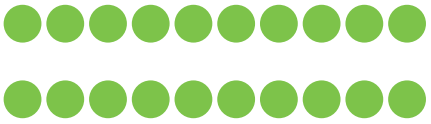
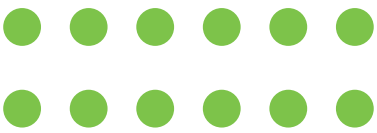
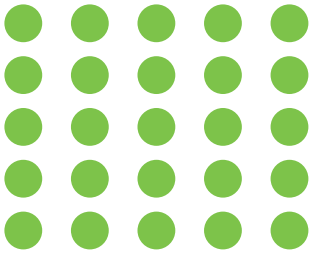
3 × 2 =	1 × 5 =	1 × 2 =	12 × 2 =	1 × 2 =
4 × 5 =	5 × 2 =	3 × 3 =	11 × 5 =	2 × 3 =
2 × 10 =	10 × 5 =	5 × 5 =	10 × 2 =	3 × 5 =
6 × 5 =	4 × 3 =	7 × 10 =	1 × 5 =	4 × 3 =
3 × 3 =	7 × 10 =	9 × 3 =	2 × 3 =	5 × 5 =
2 × 5 =	2 × 3 =	12 × 5 =	3 × 5 =	12 × 3 =
1 × 5 =	4 × 2 =	11 × 2 =	6 × 3 =	11 × 2 =
0 × 3 =	6 × 5 =	2 × 10 =	4 × 10 =	10 × 3 =
10 × 10 =	8 × 10 =	4 × 3 =	7 × 2 =	9 × 10 =
12 × 2 =	9 × 5 =	6 × 5 =	9 × 5 =	8 × 10 =
11 × 5 =	10 × 3 =	8 × 10 =	8 × 3 =	7 × 10 =
6 × 3 =	11 × 2 =	10 × 2 =	2 × 10 =	6 × 3 =
5 × 5 =	12 × 5 =	12 × 2 =	6 × 10 =	0 × 5 =
4 × 2 =	3 × 3 =	2 × 3 =	2 × 3 =	6 × 2 =
6 × 2 =	5 × 10 =	7 × 5 =	8 × 5 =	8 × 3 =
8 × 10 =	10 × 2 =	8 × 10 =	9 × 2 =	4 × 2 =
4 × 3 =	11 × 5 =	9 × 10 =	4 × 5 =	11 × 5 =
2 × 2 =	9 × 3 =	11 × 3 =	3 × 3 =	12 × 3 =
5 × 10 =	1 × 10 =	12 × 2 =	11 × 2 =	0 × 10 =
6 × 4 =	0 × 2 =	6 × 5 =	12 × 5 =	2 × 2 =

Array for Maths!

Write two multiplication sentences for each of these arrays. The first one has been done for you.

		
4 × 3 = 12		
3 × 4 = 12		
		

Write two division sentences for each of these arrays. Try using coloured pencils to group the dots.

		
15 ÷ 5 = 3		
15 ÷ 3 = 5		
		

What do you notice about the last one? Talk to your helper.

Commutativity

The commutative property of multiplication means that when two numbers are multiplied together it doesn't matter which one comes first because the product will be the same. Division does not have commutativity.

4 × 2 = 2 × _____

1 × 3 = 3 × _____

3 × 5 = 5 × _____

3 × 10 = 10 × _____

7 × 10 = 10 × _____

11 × 3 = 3 × _____

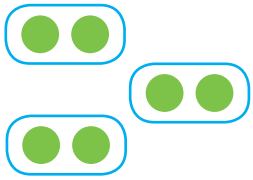
Fill in the missing numbers:

_____ × 2 = 2 × 5 **5 × 2 = _____** **2 × _____ = _____**	**_____ × 3 = 3 × 8** **3 × 8 = _____** **8 × _____ = _____**
10 × 2 = 2 × **_____ × _____ = _____** **_____ × _____ = _____**	**4 × 6 = _____ × 4** **_____ × _____ = _____** **_____ × _____ = _____**

Challenge: Ryan has 3 boxes with 5 cars in each. His friend Sam has 5 boxes with 3 cars in each. Who has the most cars?

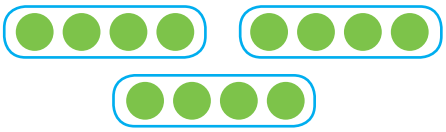
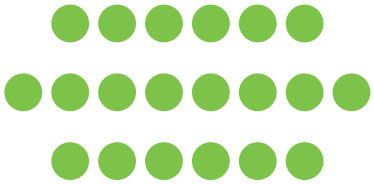
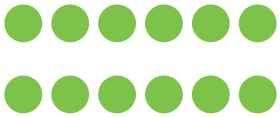
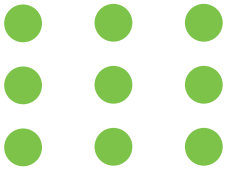
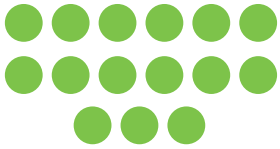
Multiplication

Complete the table. The first one is done for you.

Factors	Repeated Addition	Groups	Array	Related Calculation (commutative property)	Product
3 × 2	2+2+2			2 × 3	6
2 × 5					
3 × 10					
6 × 2					
4 × 3					
3 × 5					
2 × 10					

Division

Complete the table. The first one is done for you.

Division	Sharing	Answer	Related Multiplication Facts
12 ÷ 3		4	3 × 4 = 12 4 × 3 = 12
8 ÷ 2			
10 ÷ 5			
20 ÷ 10			
12 ÷ 2			
9 ÷ 3			
15 ÷ 5			

Fill the Gaps

Emma and James are visiting the circus. Can you work out the answers to these problems for them? Use arrays, sharing, objects, or anything else that may help you. Don't forget to look for the important information!

Each children's ticket costs £5. How much do the 2 children pay altogether?  	Each section of the circus has 10 seats. If 40 people arrive, how many sections will they need?	There are 3 clowns and each clown juggles 4 balls. How many balls altogether?
There are 20 sweets in Emma's packet. If she shares them equally with James, how many sweets will they have each?	9 trapeze artists swing on 3 swings. How many trapeze artists are on each swing? 	The motorbike riders are next. There are 18 wheels altogether. How many motorbikes are there? 
The circus dancers wear feathers in their hair. There are 5 dancers and each dancer wears 3 feathers. How many feathers altogether?	There are 7 acrobats. Each acrobat does 5 tumbles. How many tumbles altogether?	At the end of the show, 10 performers take 30 bows altogether. How many bows does each performer take?

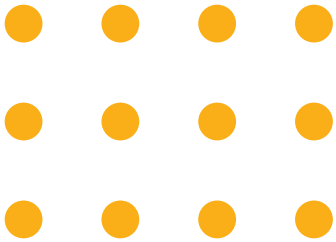
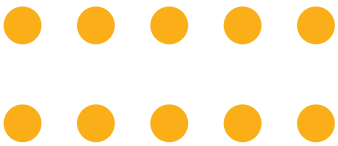
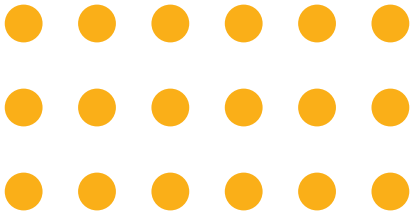
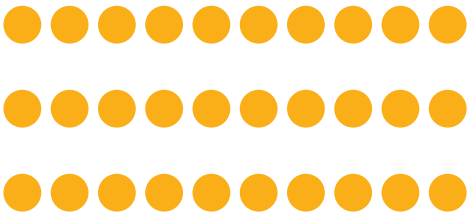
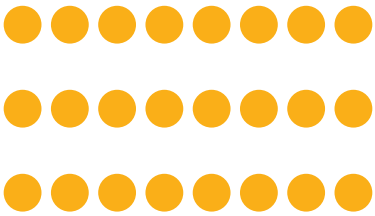
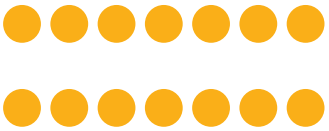
Know Your Facts **Answers**

Ask your helper to time you for 60 seconds. Complete as many of the questions in the first column as you can, then mark them together. Next week, try and beat your score using the next column.

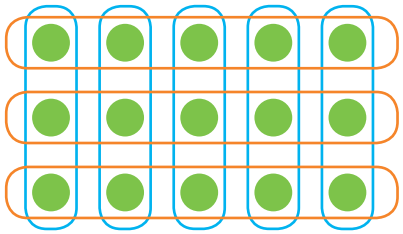
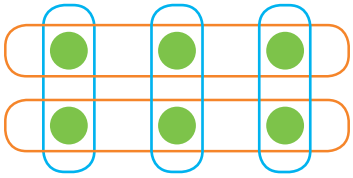
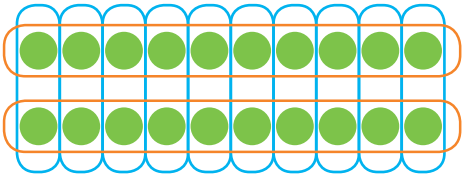
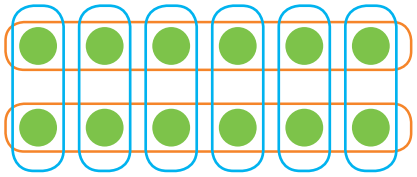
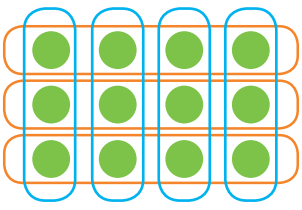
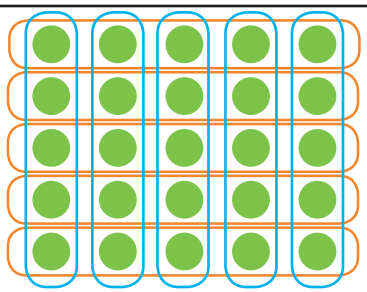
3 × 2 = 6	1 × 5 = 5	1 × 2 = 2	12 × 2 = 24	1 × 2 = 2
4 × 5 = 20	5 × 2 = 10	3 × 3 = 9	11 × 5 = 55	2 × 3 = 6
2 × 10 = 20	10 × 5 = 50	5 × 5 = 25	10 × 2 = 20	3 × 5 = 15
6 × 5 = 30	4 × 3 = 12	7 × 10 = 70	1 × 5 = 5	4 × 3 = 12
3 × 3 = 9	7 × 10 = 70	9 × 3 = 27	2 × 3 = 6	5 × 5 = 25
2 × 5 = 10	2 × 3 = 6	12 × 5 = 60	3 × 5 = 15	12 × 3 = 36
1 × 5 = 5	4 × 2 = 8	11 × 2 = 22	6 × 3 = 18	11 × 2 = 22
0 × 3 = 0	6 × 5 = 30	2 × 10 = 20	4 × 10 = 40	10 × 3 = 30
10 × 10 = 100	8 × 10 = 80	4 × 3 = 12	7 × 2 = 14	9 × 10 = 90
12 × 2 = 24	9 × 5 = 45	6 × 5 = 30	9 × 5 = 45	8 × 10 = 80
11 × 5 = 55	10 × 3 = 30	8 × 10 = 80	8 × 3 = 24	7 × 10 = 70
6 × 3 = 18	11 × 2 = 22	10 × 2 = 20	2 × 10 = 20	6 × 3 = 18
5 × 5 = 25	12 × 5 = 60	12 × 2 = 24	6 × 10 = 60	0 × 5 = 0
4 × 2 = 8	3 × 3 = 9	2 × 3 = 6	2 × 3 = 6	6 × 2 = 12
6 × 2 = 12	5 × 10 = 50	7 × 5 = 35	8 × 5 = 40	8 × 3 = 24
8 × 10 = 80	10 × 2 = 20	8 × 10 = 80	9 × 2 = 18	4 × 2 = 8
4 × 3 = 12	11 × 5 = 55	9 × 10 = 90	4 × 5 = 20	11 × 5 = 55
2 × 2 = 4	9 × 3 = 27	11 × 3 = 33	3 × 3 = 9	12 × 3 = 36
5 × 10 = 50	1 × 10 = 10	12 × 2 = 24	11 × 2 = 22	0 × 10 = 0
6 × 4 = 24	0 × 2 = 0	6 × 5 = 30	12 × 5 = 60	2 × 2 = 4

Array for Maths! **Answers**

Write two multiplication sentences for each of these arrays. The first one has been done for you.

		
4 × 3 = 12	2 × 5 = 10	3 × 6 = 18
3 × 4 = 12	5 × 2 = 10	6 × 3 = 18
		
3 × 10 = 30	8 × 3 = 24	7 × 2 = 14
10 × 3 = 30	3 × 8 = 24	2 × 7 = 14

Write two division sentences for each of these arrays. Try using coloured pencils to group the dots.

		
15 ÷ 5 = 3	6 ÷ 2 = 3	20 ÷ 2 = 10
15 ÷ 3 = 5	6 ÷ 3 = 2	20 ÷ 10 = 2
		
12 ÷ 6 = 2	12 ÷ 4 = 3	25 ÷ 5 = 5
12 ÷ 2 = 6	12 ÷ 3 = 4	

What do you notice about the last one? Talk to your helper.

Commutativity **Answers**

The commutative property of multiplication means that when two numbers are multiplied together it doesn't matter which one comes first because the product will be the same. Division does not have commutativity.

4 × 2 = 2 × 4

1 × 3 = 3 × 1

3 × 5 = 5 × 3

3 × 10 = 10 × 3

7 × 10 = 10 × 7

11 × 3 = 3 × 11

Fill in the missing numbers:

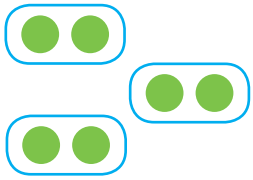
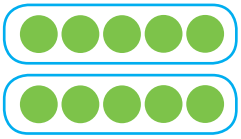
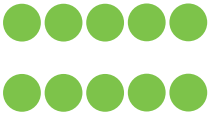
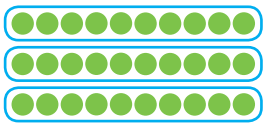
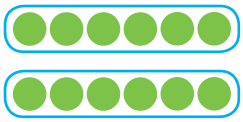
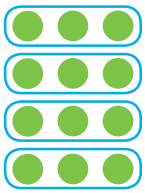
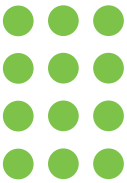
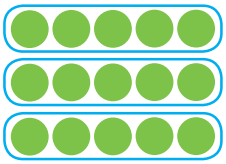
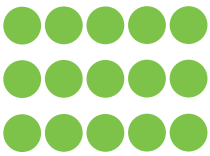
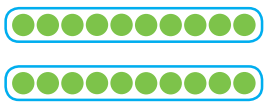
5 × 2 = 2 × 5 **5 × 2 = 10** **2 × 5 = 10**	**8 × 3 = 3 × 8** **3 × 8 = 24** **8 × 3 = 24**
10 × 2 = 2 × 10 **2 × 10 = 20** **10 × 2 = 20**	**4 × 6 = 6 × 4** **4 × 6 = 24** **6 × 4 = 24**

Challenge: Ryan has 3 boxes with 5 cars in each. His friend Sam has 5 boxes with 3 cars in each. Who has the most cars?

3 × 5 = 15 5 × 3 = 15 They both have the same number of cars.

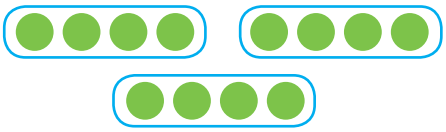
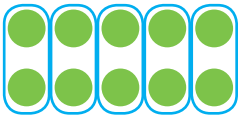
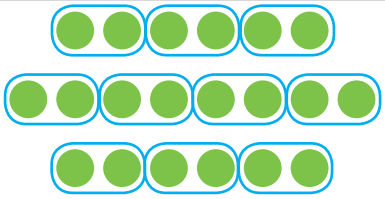
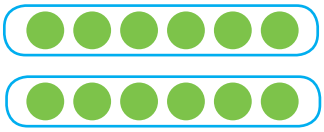
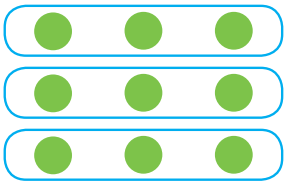
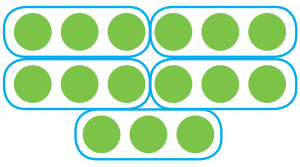
Multiplication **Answers**

Complete the table. The first one is done for you.

Factors	Repeated Addition	Groups	Array	Related Calculation (commutative property)	Product
3 × 2	2+2+2			2 × 3	6
2 × 5	5 + 5			5 × 2	10
3 × 10	10 + 10 + 10			10 × 3	30
6 × 2	6 + 6			2 × 6	12
4 × 3	3 + 3 + 3 + 3			3 × 4	12
3 × 5	5 + 5 + 5			5 × 3	15
2 × 10	10 + 10			10 × 2	20

Division **Answers**

Complete the table. The first one is done for you.

Division	Sharing	Answer	Related Multiplication Facts
12 ÷ 3		4	3 × 4 = 12 4 × 3 = 12
8 ÷ 2		4	4 × 2 = 8 2 × 4 = 8
10 ÷ 5		2	5 × 2 = 10 2 × 5 = 10
20 ÷ 10		2	10 × 2 = 20 2 × 10 = 20
12 ÷ 2		6	6 × 2 = 12 2 × 6 = 12
9 ÷ 3		3	3 × 3 = 9
15 ÷ 5		3	5 × 3 = 15 3 × 5 = 15

Fill the Gaps **Answers**

Emma and James are visiting the circus. Can you work out the answers to these problems for them? Use arrays, sharing, objects, or anything else that may help you. Don't forget to look for the important information!

Each children's ticket costs £5. How much do the 2 children pay altogether?  £10	Each section of the circus has 10 seats. If 40 people arrive, how many sections will they need? 4 sections	There are 3 clowns and each clown juggles 4 balls. How many balls altogether? 12 balls
There are 20 sweets in Emma's packet. If she shares them equally with James, how many sweets will they have each? 10 sweets	9 trapeze artists swing on 3 swings. How many trapeze artists are on each swing?  3 trapeze artists	The motorbike riders are next. There are 18 wheels altogether. How many motorbikes are there?  9 motorbikes
The circus dancers wear feathers in their hair. There are 5 dancers and each dancer wears 3 feathers. How many feathers altogether? 15 feathers	There are 7 acrobats. Each acrobat does 5 tumbles. How many tumbles altogether? 35 tumbles	At the end of the show, 10 performers take 30 bows altogether. How many bows does each performer take? 3 bows

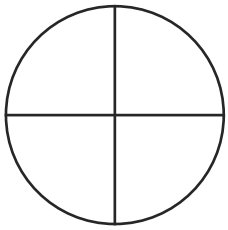
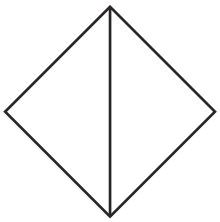
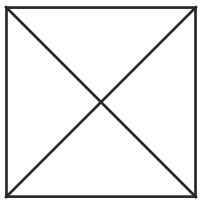
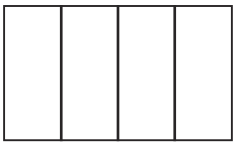
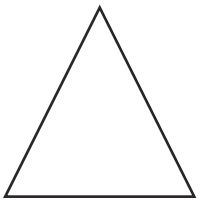
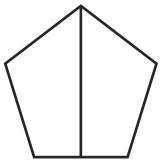
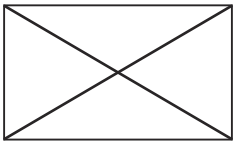
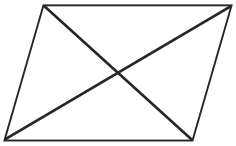
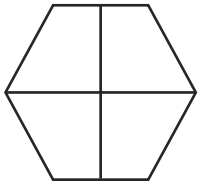
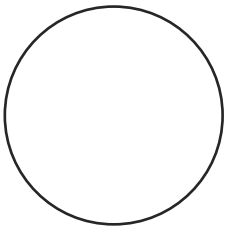
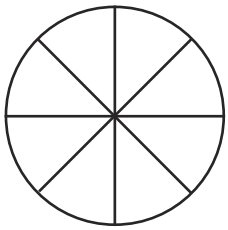
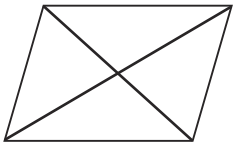
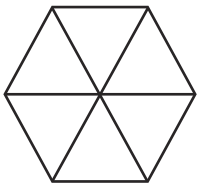
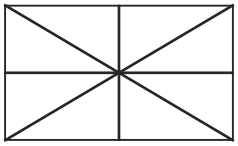
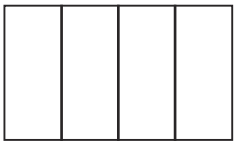
Year 2 Maths Fractions

Learning from Home Activity Booklet

Year 2 Programme of Study – Fractions

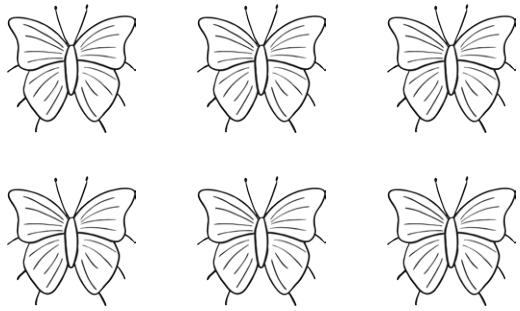
Fractions of Shapes

Shade the fractions of these shapes:

 $\frac{1}{4}$	 $\frac{1}{2}$	 $\frac{1}{4}$	 $\frac{3}{4}$	 $\frac{1}{1}$
 a half	 one quarter	 two quarters	 three quarters	 a whole
 $\frac{3}{4}$	 $\frac{1}{4}$	 $\frac{1}{2}$	 two halves	 four quarters

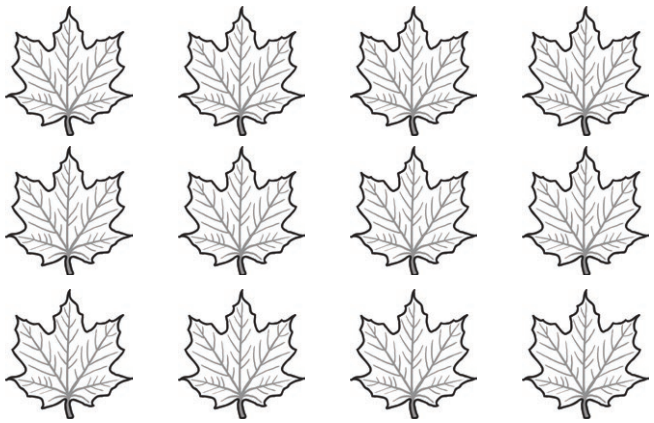
Fraction Challenges

Colour $\frac{1}{2}$ of the butterflies

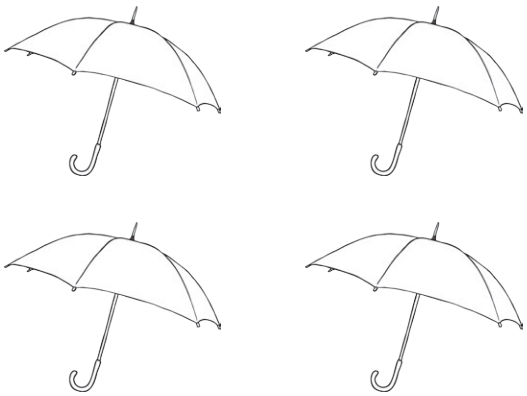


Colour $\frac{1}{4}$ of the stars

Colour $\frac{3}{4}$ of the leaves



Colour $\frac{2}{4}$ of the umbrellas



Can you solve these problems?

Priya's pencil is 12cm long. Daniel's pencil is half the length of Priya's. How long is Daniel's pencil?

_____

Lucy has 12 sweets. She eats one quarter of them. How many does she have left?

_____

It takes dad 4 minutes to tie his shoelaces. It takes Sam $\frac{3}{4}$ of that time. How long does it take Sam?

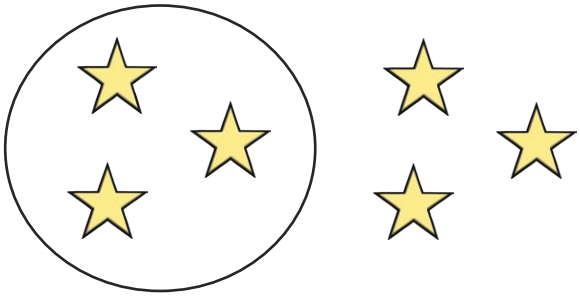
_____

Half the children in Red Class go out to play. There are 10 children left in the classroom. How many children are in Red Class?

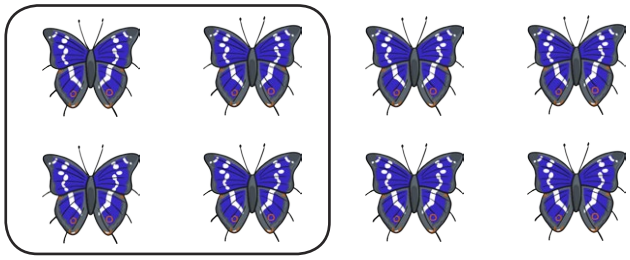
_____

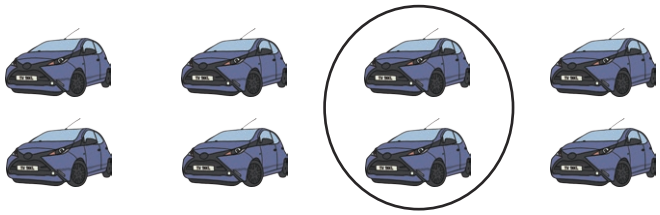
Find the Fraction

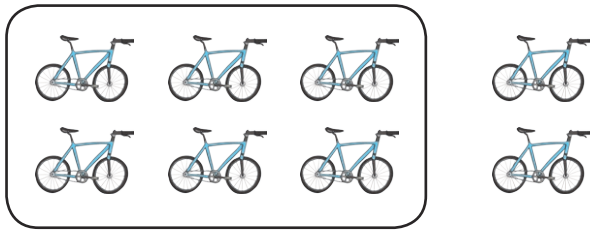
Write a fraction sentence for each picture. The first one has been done for you.



$\frac{1}{2}$ of 6 = 3







Now draw pictures to go with these fraction sentences.

$\frac{1}{2}$ of 10 is 5

$\frac{1}{4}$ of 12 is 3

$\frac{2}{4}$ of 4 is 2

$\frac{3}{4}$ of 12 is 9

Fraction Wall

Complete the fraction wall.

1			
$\frac{1}{2}$			
	$\frac{1}{4}$		$\frac{1}{4}$

Now complete these fraction sentences using your fraction wall.

$\frac{1}{2} = \frac{\quad}{4}$

$\frac{1}{2} = \frac{2}{\quad}$

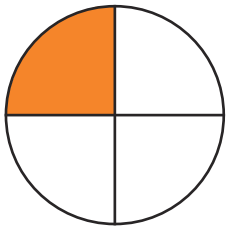
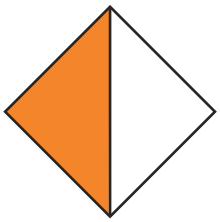
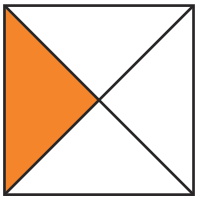
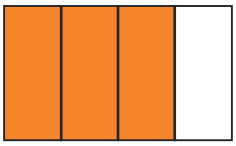
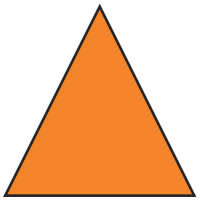
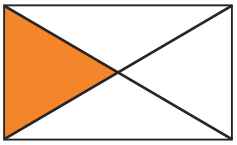
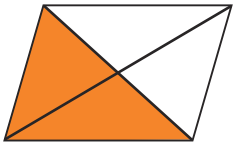
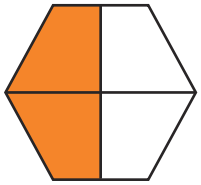
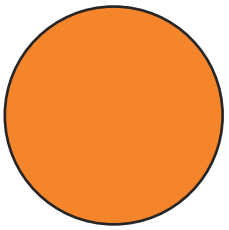
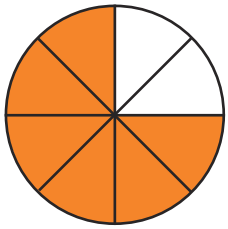
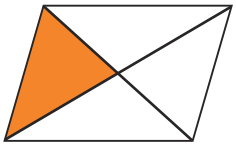
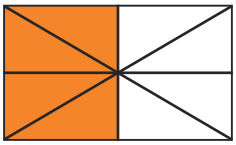
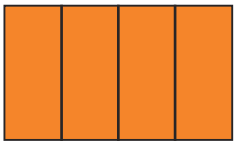
$1 = \frac{\quad}{2}$

$1 = \frac{4}{\quad}$

$1 = \frac{\quad}{4}$

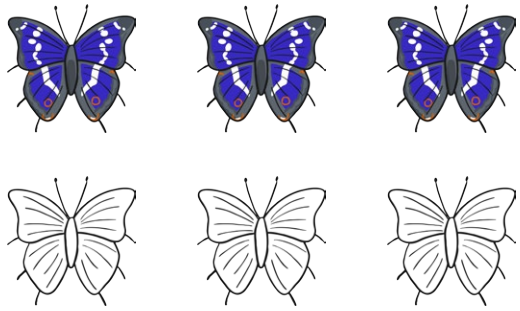
Fractions of Shapes **Answers**

Shade the fractions of these shapes:

 $\frac{1}{4}$	 $\frac{1}{2}$	 $\frac{1}{4}$	 $\frac{3}{4}$	 $\frac{1}{1}$
 a half	 one quarter	 two quarters	 three quarters	 a whole
 $\frac{3}{4}$	 $\frac{1}{4}$	 $\frac{1}{2}$	 two halves	 four quarters

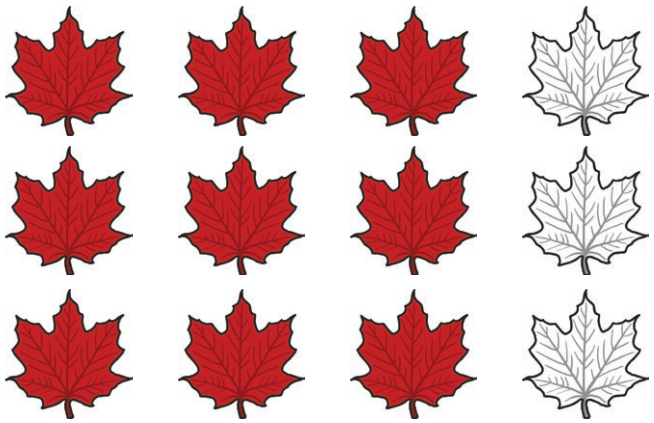
Fraction Challenges **Answers**

Colour $\frac{1}{2}$ of the butterflies



Colour $\frac{1}{4}$ of the stars

Colour $\frac{3}{4}$ of the leaves



Colour $\frac{2}{4}$ of the umbrellas

Can you solve these problems?

Priya's pencil is 12cm long. Daniel's pencil is half the length of Priya's. How long is Daniel's pencil?

Half of 12 is 6, so Daniel's pencil is 6cm long.

Lucy has 12 sweets. She eats one quarter of them. How many does she have left?

One quarter of 12 is 3. 12 - 3 = 9, so Lucy has 9 sweets left.

It takes dad 4 minutes to tie his shoelaces. It takes Sam $\frac{3}{4}$ of that time. How long does it take Sam?

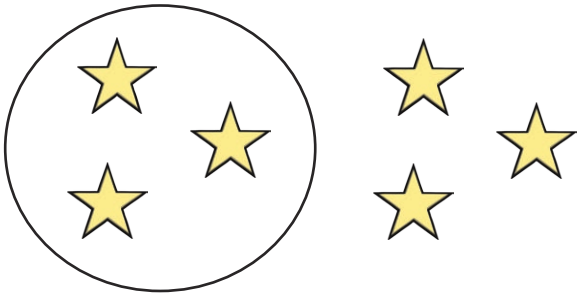
$\frac{3}{4}$ of 4 is 3, so it takes Sam 3 minutes.

Half the children in Red Class go out to play. There are 10 children left in the classroom. How many children are in Red Class?

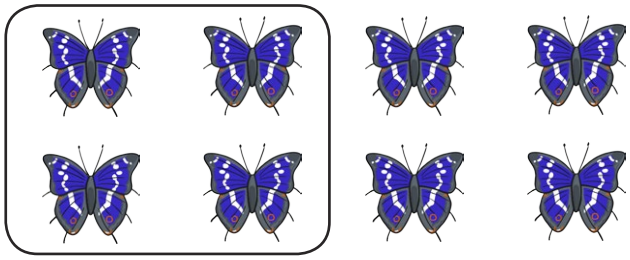
10 is half of 20, so there are 20 children in Red Class.

Find the Fraction **Answers**

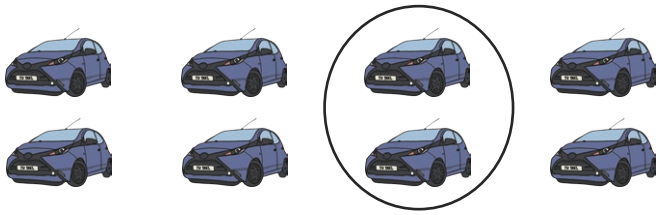
Write a fraction sentence for each picture. The first one has been done for you.



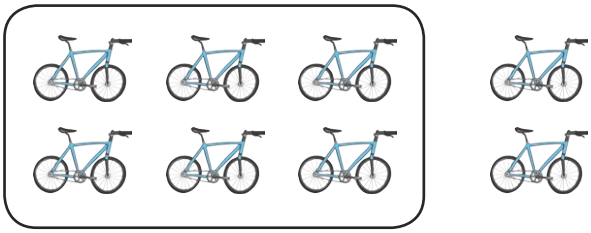
$\frac{1}{2}$ of 6 = 3



$\frac{1}{2}$ of 8 = 4



$\frac{1}{4}$ of 8 = 2



$\frac{3}{4}$ of 8 = 6

Now draw pictures to go with these fraction sentences.

$\frac{1}{2}$ of 10 is 5

$\frac{1}{4}$ of 12 is 3

$\frac{2}{4}$ of 4 is 2

$\frac{3}{4}$ of 12 is 9

Fraction Wall **Answers**

Complete the fraction wall.

1			
$\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$

Now complete these fraction sentences using your fraction wall.

$\frac{1}{2} = \frac{2}{4}$

$\frac{1}{2} = \frac{2}{4}$

$1 = \frac{2}{2}$

$1 = \frac{4}{4}$

$1 = \frac{4}{4}$

My Summer Holiday Snapshots

Where I went...

Who I saw...

Games I played...

Things I ate...

Our last day...

WHO ARE THE CHARACTERS IN YOUR STORY?

If you were an author, what kind of book would you write?

Who are the characters in your story?

MY READING RECORD

My Reading Record

Title: _____

Author: _____

This book is about: _____

_____

_____

_____

_____

My favourite part was: _____

_____

_____

_____

I liked this part because _____

_____

Tricky words: _____ _____

_____ _____

My star rating: 

My Reading Record

Title: _____

Author: _____

This book is about: _____

_____

_____

_____

_____

My favourite part was: _____

_____

_____

_____

I liked this part because _____

_____

Tricky words: _____ _____

_____ _____

My star rating: 

My Reading Record

Title: _____

Author: _____

This book is about: _____

_____

_____

_____

_____

My favourite part was: _____

_____

_____

_____

I liked this part because _____

_____

Tricky words: _____ _____

_____ _____

My star rating: 

My Reading Record

Title: _____

Author: _____

This book is about: _____

_____

_____

_____

_____

My favourite part was: _____

_____

_____

_____

I liked this part because _____

_____

Tricky words: _____ _____

_____ _____

My star rating: 

Year 2 Spelling and Reading: Common Exception Words

Learning from Home Activity Booklet

Year 2 Programme of Study – Spelling, Punctuation and Grammar.

Statutory requirements	Activity sheet	Page number
Pupils should be taught to read common exception words, noting unusual correspondences between spelling and sound and where these occur in the word.	Word list	2
	Common Exception Words Bingo	3, 4, 5
	4 in a Row Game	6
	Word Search	7
Pupils should be taught to spell common exception words, noting unusual correspondences between spelling and sound and where these occur in the word.	Syllable Search	8
	Word Families	9, 10
	Unusual Graphemes	11

Note for parents and carers:
In Year 2, children add to the list of 'common exception words' that they began to learn in Year 1. These words are a combination of the most commonly used words in reading and writing, and some words that do not follow phonetic rules. The list of common exception words continues to be added to as children progress through school.

Year 2 Common Exception Words

door	should	old	father
floor	would	cold	class
poor	who	gold	grass
because	whole	hold	pass
find	any	told	plant
kind	many	every	path
mind	clothes	great	bath
behind	busy	break	hour
child	people	steak	move
children	water	pretty	prove
wild	again	beautiful	improve
climb	half	after	sure
most	even	fast	sugar
only	money	last	eye
Mrs	Christmas	even	everybody
both	Mr	past	could
parents			

Common Exception Words Bingo

Print out the exception words, cut them up and put into a hat or a bowl. Print and cut out the bingo cards and choose one for each player. Take it in turns to pick a word from the hat and read it to your partner. If they have it on their card, they cross it off. The winner is the first person to cross off all the words on their card. There are blank cards too so you can make your own.

Bingo Card 1			
money		**poor**	
	whole	**would**	
even		**people**	**again**

Bingo Card 2			
	should		**gold**
parents		**steak**	
	pretty	**both**	

Bingo Card 3			
kind			father
	hold	improve	plant
bath		children	

Bingo Card 4			
clothes	break		
	kind	eye	every
most		fast	

Bingo Card 5			
	wild	hour	old
because	prove		
		sure	both

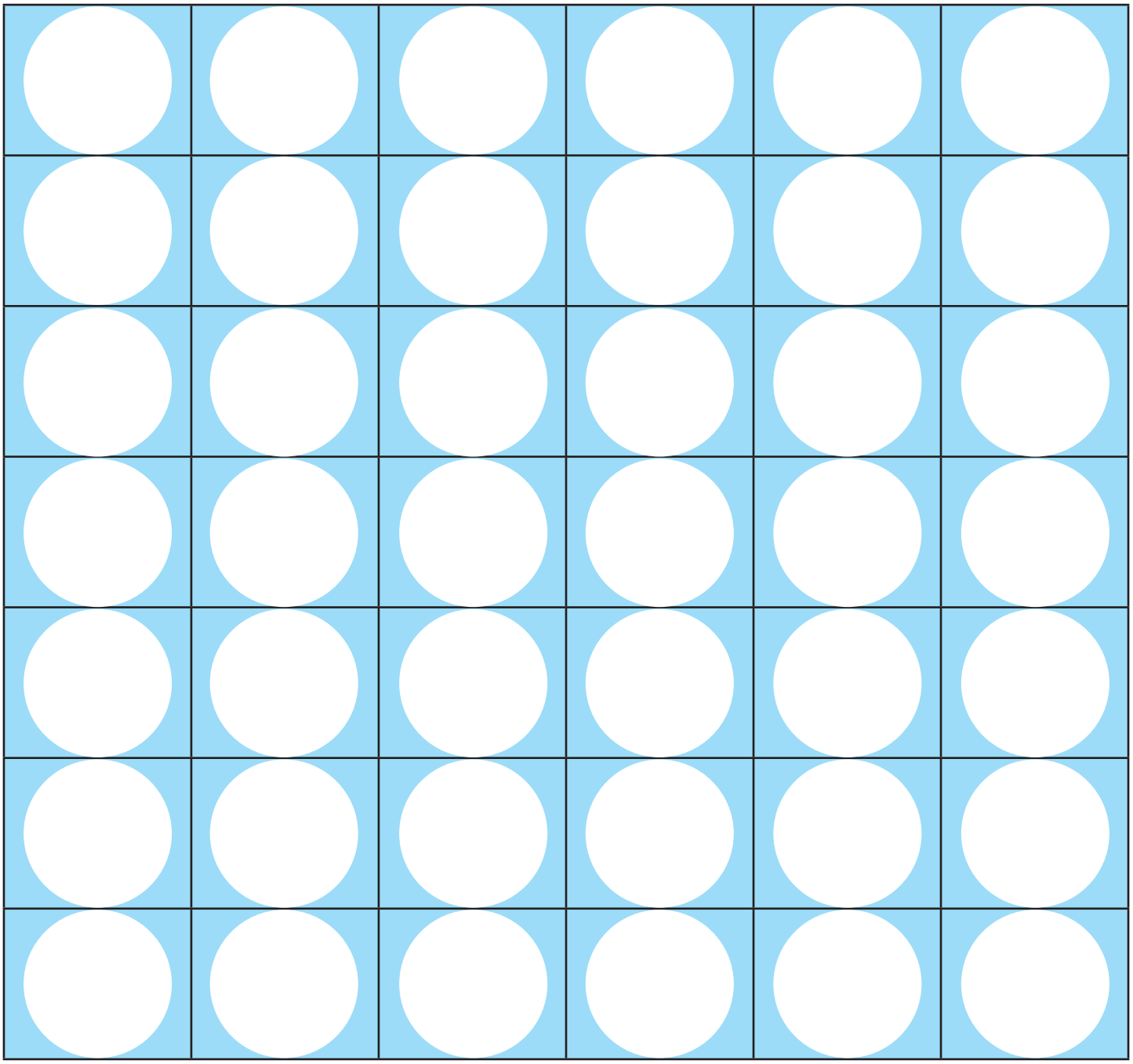
Bingo Card			

Bingo Card			

Bingo Card			

4 in a Row Game

You will need a set of two different coloured counters (around 10-15 of each colour). If you don't have counters, coloured sweets, small toys or coins will do. Use your hat, bag or bowl full of the bingo card words for this game too. Take it in turns to pull out a word. If you can read it, you can place a coloured counter on the board. The aim of the game is to get four counters in a row, horizontally, vertically or diagonally.



Word Search

How many of your words can you find in this word search? There are 14 altogether!

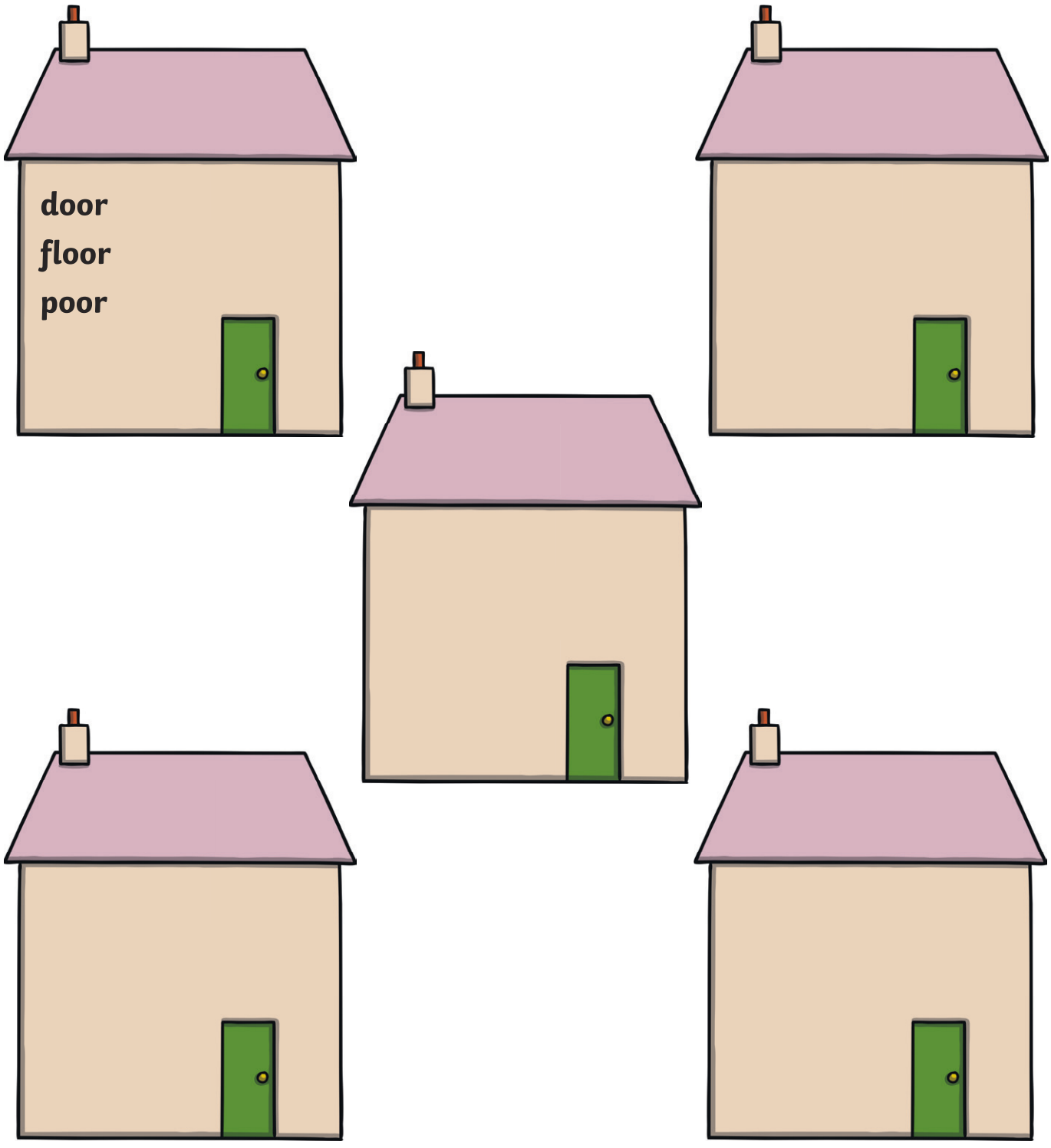
c	o	u	l	d	a	u	r	a	g	u	s
h	q	p	y	e	l	p	o	e	p	d	s
i	j	d	n	i	k	u	b	g	w	l	m
l	g	p	v	y	p	r	e	t	t	y	p
d	d	r	c	p	y	t	a	l	h	m	h
r	d	o	o	s	h	o	u	l	d	e	p
e	x	v	x	e	w	a	t	e	r	e	a
n	q	e	h	c	j	q	i	k	r	v	r
i	z	r	a	o	f	k	f	w	b	l	e
f	o	z	b	e	c	a	u	s	e	t	n
z	l	i	a	w	h	o	l	e	n	h	t
r	d	s	s	z	t	n	n	e	i	b	s

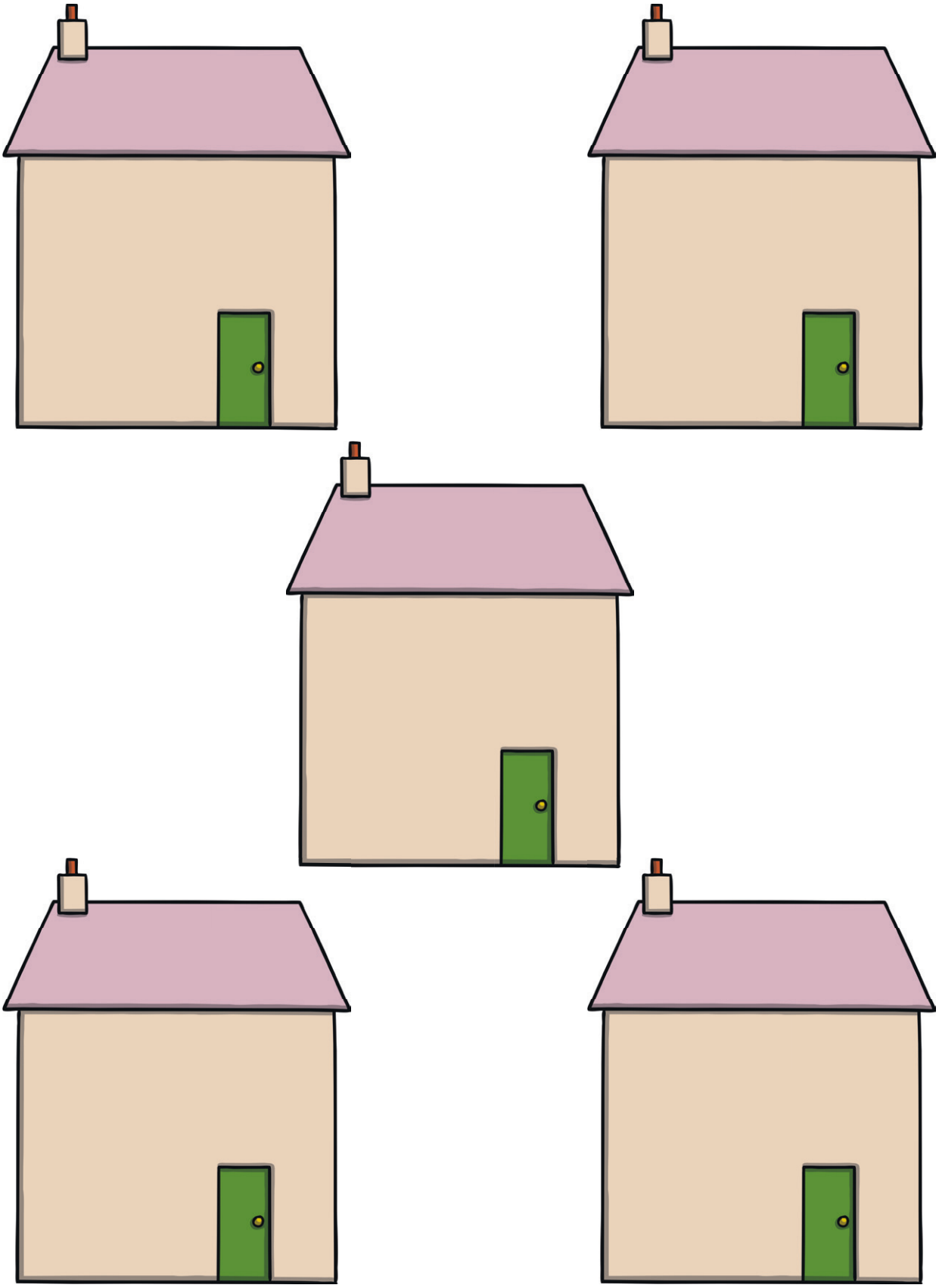
Syllable Search

Look at your common exception word list. How many words have one syllable? How many have two syllables? Write the words into these jars according to how many syllables they have.

Word Families

Look at your common exception word list. Have you noticed that some of the words contain the same string of letters – for example d**oor**, fl**oor** and p**oor**? Group the words into families with the same letter string and put them into these houses:

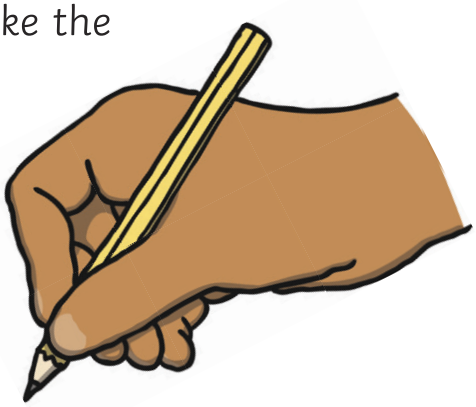




Challenge: Can you add any words that are not on your common exception word list to the families?

Unusual Graphemes

Some of the words on your common exception word list contain 'unusual graphemes' – letters or strings of letters that don't make the sound you are expecting them to. For example, in the word 'beautiful', the letters string 'eau' makes the sound 'yoo'.



Look at these words from your list. Choose a coloured pen or pencil and underline the unusual graphemes.

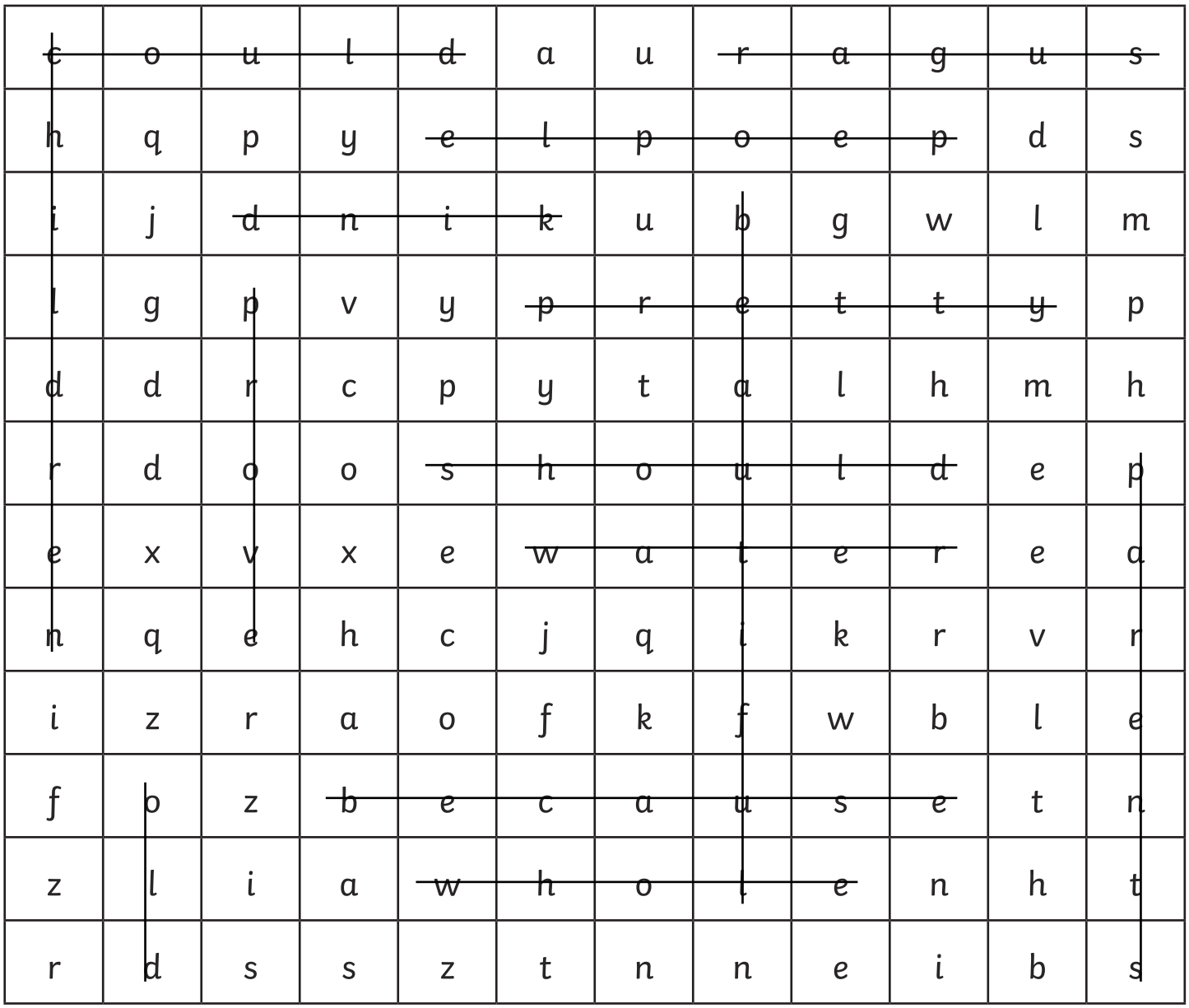
beautiful	Christmas
sure	sugar
pretty	steak
money	eye
half	people
busy	should
would	whole
because	Mrs

Challenge: Can you find any more unusual graphemes in the words on the common exception word list?

door	should	old	father
floor	would	cold	class
poor	who	gold	grass
because	whole	hold	pass
find	any	told	plant
kind	many	every	path
mind	clothes	great	bath
behind	busy	break	hour
child	people	steak	move
children	water	pretty	prove
wild	again	beautiful	improve
climb	half	after	sure
most	even	fast	sugar
only	money	last	eye
Mrs	Christmas	even	everybody
both	Mr	past	could
parents			

Year 2 Spelling and Reading: Common Exception Words Answers

Page 14 - Word Search



Year 2 Maths Addition and Subtraction

Learning from Home Activity Booklet

Year 2 Programme of Study – Number and Place Value

Word Problems

Use what you know about addition and subtraction to solve these problems. Don't forget to underline the important information – what numbers are you using in the calculation and do you need to add or subtract (find the difference)?

1. Joe and Sam are playing a computer game. Joe scores 45 points and Sam scores 32 points. How many points do they score altogether?

2. In the next round of the game, Joe scores 36 points and Sam scores 49 points. How many more points does Sam score than Joe?

3. In a tube of sweets, Kate finds 7 orange ones, 6 green ones and 3 yellow ones. How many sweets are there altogether?

4. Lily's mum has 28p in her purse. Lily has 11p. How much do they have altogether?

5. How much more does Lily's mum have than Lily?

6. The children in Mrs Jones' class earned some extra minutes of playtime. Normally, they have 15 minutes. Now they have 22 minutes. How many extra minutes did they earn?

Know Your Facts

Fill in the missing numbers.

Number Bonds to 10

10	
6	4

10	
5	

10	
9	

10	
	3

10	
	8

10	
4	

Number Bonds to 20

20	
13	

20	
	10

20	
16	

20	
	3

20	
	8

20	
5	

If I Know This...

If I know that 6 + 4 = 10, this helps me know lots of other facts too. For example:

4 + 6 = 10	10 - 6 = 4	10 - 4 = 6	60 + 40 = 100
16 + 4 = 20	14 + 6 = 20	26 + 4 = 30	34 + 6 = 40
100 - 60 = 40	20 - 6 = 14	50 - 6 = 44	100 - 40 = 60

Write down as many facts as you can to go with each of these number sentences:

5 + 5 = 10	**9 + 1 = 10**
7 + 3 = 10	**2 + 8 = 10**

Roll the Dice!

You will need a 1-6 spot die and two coloured pencils. Take it in turns with your helper to choose a two-digit number from the grid. Roll the dice and add the number on the dice to your two-digit number. If you get it right, colour in the number on the grid. The winner is the first person to colour in six squares. Use the number line to help you.

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	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

24	86	57	93	38
14	49	10	69	75
60	16	36	47	54
25	74	37	42	81
21	90	19	65	53
16	20	88	79	95

Tricky Tens

Fill in the missing numbers by counting on in tens.

4	14	24					
27	37				77		
19			49				
8							78

Can you use this knowledge to help you solve these addition and subtraction sentences?

24 + 10 = _____

34 + 30 = _____

44 + 20 = _____

19 + 10 = _____

39 + 40 = _____

8 + 10 = _____

48 + 40 = _____

37 + 20 = _____

57 + 40 = _____

44 – 30 = _____

99 – 10 = _____

39 – 20 = _____

88 – 30 = _____

47 – 40 = _____

67 – 60 = _____

54 – 30 = _____

58 – 20 = _____

24 – 10 = _____

Add and Subtract

Find the answer to these addition number sentences.

87 + 11 = _____ **65 + 33 =** _____

41 + 53 = _____ **34 + 22 =** _____

54 + 25 = _____ **27 + 31 =** _____

Now try these:

65 + 26 = _____ **48 + 48 =** _____

76 + 28 = _____ **39 + 28 =** _____

Add and Subtract

Find the answer to these subtraction number sentences.

67 - 21 = _____ **65 - 33 =** _____

71 - 51 = _____ **89 - 57 =** _____

84 - 23 = _____ **37 - 31 =** _____

65 - 24 = _____ **48 - 38 =** _____

96 - 75 = _____ **39 - 21 =** _____

Missing Numbers

Write in the missing numbers to make the number sentences correct. Think about the number bonds that make 10 and 20.

- 6 + 7 + ☐ = 20
- 5 + 9 + ☐ = 20
- 3 + 8 + ☐ = 20
- 4 + 5 + ☐ = 20
- 9 + 1 + ☐ = 20
- 6 + 5 + ☐ = 20
- 3 + 9 + ☐ = 20
- 7 + 5 + ☐ = 20
- 9 + 9 + ☐ = 20
- 8 + 8 + ☐ = 20
- 9 + 8 + ☐ = 20
- 7 + 8 + ☐ = 20
- 7 + 9 + ☐ = 20

Right or Wrong?

Are these statements right or wrong? Put a tick in the box if the statements are correct and a cross if they are incorrect.

2 + 12 is the same as 12 + 2 ☐

34 + 46 is the same as 46 + 34 ☐

16 - 5 is the same as 5 - 16 ☐

26 - 12 is the same as 12 - 26 ☐

Now try this:

Can you choose the correct number sentence to go with each of these word problems?

James finds 12 red bricks and 16 blue bricks in his toy box. How many bricks does he have altogether?

12 + 16 ☐ **12 - 16** ☐ **16 - 12** ☐

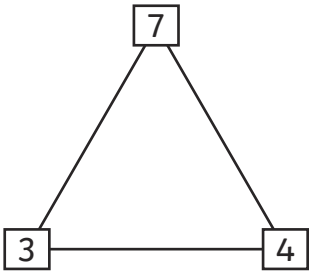
Sarah spent 46p in the shop yesterday. Today, she spent 33p. How much more did she spend yesterday than today?

46 -33 ☐ **33 - 46** ☐ **33 + 46** ☐

Challenge: Now, calculate the answers to these problems!

Know Your Numbers!

Use the number triangles to make four number sentences.

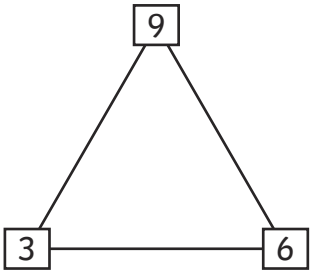


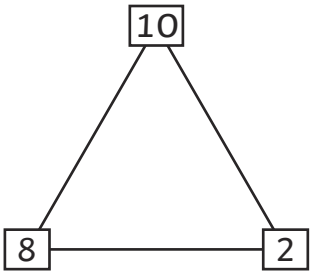
3 + 4 = 7

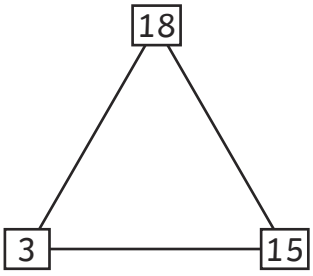
4 + 3 = 7

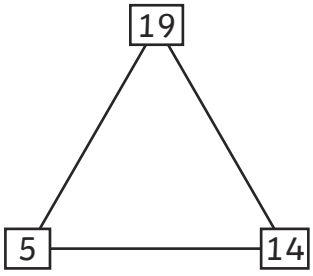
7 - 3 = 4

7 - 4 = 3









Fill the Gaps

Fill in the missing numbers in these calculations.

6 + ☐ = 12	☐ + 6 = 11
5 + ☐ = 14	☐ + 7 = 14
9 + ☐ = 13	☐ + 5 = 9
4 + ☐ = 10	☐ + 9 = 16
8 + ☐ = 16	☐ + 10 = 15
15 - ☐ = 8	☐ - 6 = 9
18 - ☐ = 11	☐ - 5 = 6
13 - ☐ = 7	☐ - 7 = 9
11 - ☐ = 3	☐ - 4 = 8
14 - ☐ = 8	☐ - 9 = 10

Word Problems **Answers**

Use what you know about addition and subtraction to solve these problems. Don't forget to underline the important information – what numbers are you using in the calculation and do you need to add or subtract (find the difference)?

1. Joe and Sam are playing a computer game. Joe scores 45 points and Sam scores 32 points. How many points do they score altogether?

45 + 32 = 77 points

2. In the next round of the game, Joe scores 36 points and Sam scores 49 points. How many more points does Sam score than Joe?

49 - 36 = 13 points

3. In a tube of sweets, Kate finds 7 orange ones, 6 green ones and 3 yellow ones. How many sweets are there altogether?

7 + 6 + 3 = 16 sweets

4. Lily's mum has 28p in her purse. Lily has 11p. How much do they have altogether?

28 + 11 = 39p

5. How much more does Lily's mum have than Lily?

28 - 11 = 17p

6. The children in Mrs Jones' class earned some extra minutes of playtime. Normally, they have 15 minutes. Now they have 22 minutes. How many extra minutes did they earn?

22 - 15 = 7 minutes

Know Your Facts **Answers**

Fill in the missing numbers.

Number Bonds to 10

10	
6	4

10	
5	5

10	
9	1

10	
7	3

10	
2	8

10	
4	6

Number Bonds to 20

20	
13	7

20	
10	10

20	
16	4

20	
17	3

20	
12	8

20	
5	15

If I Know This... **Answers**

If I know that 6 + 4 = 10, this helps me know lots of other facts too. For example:

4 + 6 = 10	10 - 6 = 4	10 - 4 = 6	60 + 40 = 100
16 + 4 = 20	14 + 6 = 20	26 + 4 = 30	34 + 6 = 40
100 - 60 = 40	20 - 6 = 14	50 - 6 = 44	100 - 40 = 60

Write down as many facts as you can to go with each of these number sentences:

5 + 5 = 10 Examples include: 50 + 50 = 100 15 + 5 = 20 100 - 50 = 50	**9 + 1 = 10** Examples include: 90 + 10 = 100 100 - 10 = 90 19 + 1 = 20
7 + 3 = 10 Examples include: 10 - 7 = 3 70 + 30 = 100 20 - 7 = 13	**2 + 8 = 10** Examples include: 22 + 8 = 30 100 - 80 = 20 10 - 2 = 8

Tricky Tens **Answers**

Fill in the missing numbers by counting on in tens.

4	14	24	34	44	54	64	74
27	37	47	57	67	77	87	97
19	29	39	49	59	69	79	89
8	18	28	38	48	58	68	78

Can you use this knowledge to help you solve these addition and subtraction sentences?

24 + 10 = 34

34 + 30 = 64

44 + 20 = 64

19 + 10 = 29

39 + 40 = 79

8 + 10 = 18

48 + 40 = 88

37 + 20 = 57

57 + 40 = 97

44 – 30 = 14

99 – 10 = 89

39 – 20 = 19

88 – 30 = 58

47 – 40 = 7

67 – 60 = 7

54 – 30 = 24

58 – 20 = 38

24 – 10 = 14

Add and Subtract **Answers**

Find the answer to these addition number sentences.

87 + 11 = 98

65 + 33 = 98

41 + 53 = 94

34 + 22 = 56

54 + 25 = 79

27 + 31 = 58

Now try these:

65 + 26 = 91

48 + 48 = 96

76 + 28 = 104

39 + 28 = 67

Add and Subtract **Answers**

Find the answer to these subtraction number sentences.

67 - 21 = 46

65 - 33 = 32

71 - 51 = 20

89 - 57 = 32

84 - 23 = 61

37 - 31 = 6

65 - 24 = 41

48 - 38 = 10

96 - 75 = 21

39 - 21 = 18

Missing Numbers **Answers**

Write in the missing numbers to make the number sentences correct. Think about the number bonds that make 10 and 20.

- 6 + 7 + 7 = 20
- 5 + 9 + 6 = 20
- 3 + 8 + 9 = 20
- 4 + 5 + 11 = 20
- 9 + 1 + 10 = 20
- 6 + 5 + 9 = 20
- 3 + 9 + 8 = 20
- 7 + 5 + 8 = 20
- 9 + 9 + 2 = 20
- 8 + 8 + 4 = 20
- 9 + 8 + 3 = 20
- 7 + 8 + 5 = 20
- 7 + 9 + 4 = 20

Right or Wrong? **Answers**

Are these statements right or wrong? Put a tick in the box if the statements are correct and a cross if they are incorrect.

2 + 12 is the same as 12 + 2 ✓

34 + 46 is the same as 46 + 34 ✓

16 - 5 is the same as 5 - 16 X

26 - 12 is the same as 12 - 26 X

Now try this:

Can you choose the correct number sentence to go with each of these word problems?

James finds 12 red bricks and 16 blue bricks in his toy box. How many bricks does he have altogether?

12 + 16 ✓ **12 - 16** ☐ **16 - 12** ☐

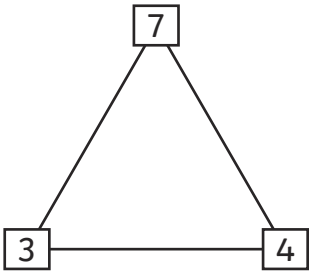
Sarah spent 46p in the shop yesterday. Today, she spent 33p. How much more did she spend yesterday than today?

46 -33 ✓ **33 - 46** ☐ **33 + 46** ☐

Challenge: Now, calculate the answers to these problems!

Know Your Numbers! **Answers**

Use the number triangles to make four number sentences.

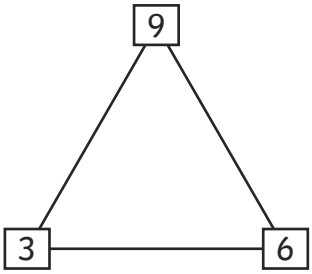


3 + 4 = 7

4 + 3 = 7

7 - 3 = 4

7 - 4 = 3

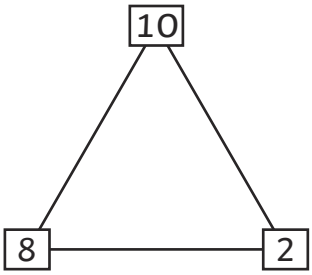


6 + 3 = 9

3 + 6 = 9

9 - 3 = 6

9 - 6 = 3

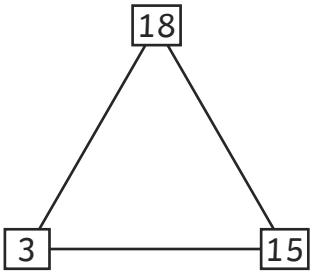


8 + 2 = 10

2 + 8 = 10

10 - 2 = 8

10 - 8 = 2

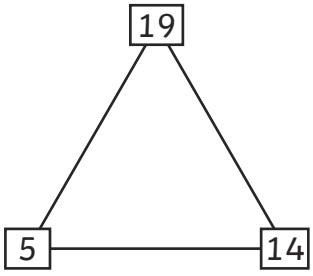


15 + 3 = 18

3 + 15 = 18

18 - 3 = 15

18 - 15 = 3



14 + 5 = 19

5 + 14 = 19

19 - 5 = 14

19 - 14 = 5

Fill the Gaps **Answers**

Fill in the missing numbers in these calculations.

6 + 6 = 12	5 + 6 = 11
5 + 9 = 14	7 + 7 = 14
9 + 4 = 13	4 + 5 = 9
4 + 6 = 10	7 + 9 = 16
8 + 8 = 16	5 + 10 = 15
15 - 7 = 8	15 - 6 = 9
18 - 7 = 11	11 - 5 = 6
13 - 6 = 7	16 - 7 = 9
11 - 8 = 3	12 - 4 = 8
14 - 6 = 8	19 - 9 = 10