

Times Tables - 5 and 10

Tizz and Poggo are making monsterberry cakes. Tizz is making small cakes. Each cake contains 5 monsterberries. To make more cakes, she uses the **5 times table** to find the number of monsterberries she needs:

2 × 5 = 10	$10 \div 5 = 2$
3 × 5 = 15	15 ÷ 5 = 3
$4 \times 5 = 20$	$20 \div 5 = 4$

3

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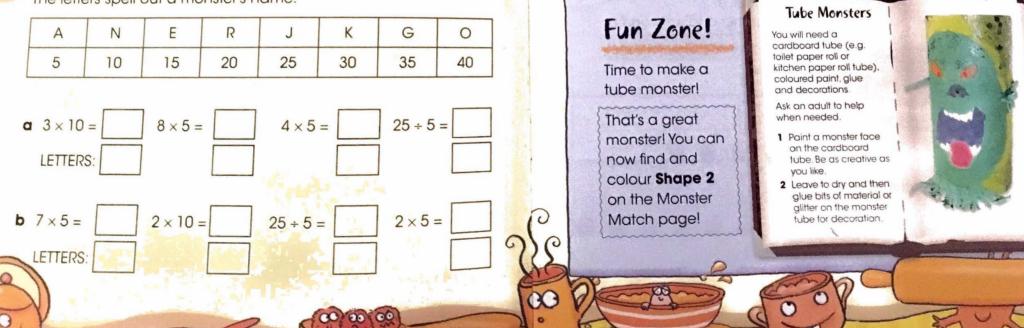
9

2

Poggo is making big cakes. Each cake contains 10 monsterberries. To make more cakes, he uses the **10 times table**:

2 × 10 = 20	20 ÷ 10 = 2
3 × 10 = 30	30 ÷ 10 = 3
4 × 10 = 40	$40 \div 10 = 4$

Work out the answers then use them to find the letters in the grid. The letters spell out a monster's name.



2 Use your division facts to answer these.

c 40 + 10 =

d 10 + 10 =

 $10 \times 5 =$

 $1 \times 5 =$

 $5 \times 10 =$

 $45 \div 5 =$

g 50 ÷ 10 =

f

h

i

e 70 + 10 =

 $100 \div 10 =$

m

n

0

 $60 \div 10 =$

6×5=

 $3 \times 5 =$

80 ÷ 10 =

 $35 \div 5 =$

b 50 + 10 =

Work out the answers to these.

a $30 \div 10 =$

a $20 \div 5 =$

 $7 \times 10 =$

5 + 5 =

 $40 \div 5 =$

 $2 \times 5 =$

b

С

d

e

0

Odd and Even

Kora is learning about multiplication and division too She and Tizz share some mini-monsters into groups of 2 Sometimes the numbers do not divide equally.

Even numbers can be equally shared into aroups of 2.

Odd numbers always have one left over. 6 can be shared equally into 3 groups of 2.

5 cannot be shared equally. 1 is left by itself.

To tell if a big number is odd or even, look at the units digit.

15 is odd because 5 is odd.

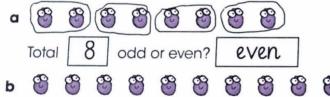
16 is even because 6 is even.

Draw circles to put these quiffs into groups of 2. Count how many guiffs there are altogether and write odd or even for each total.

The first one has been done for you.

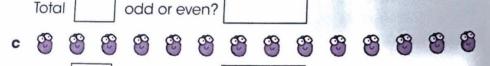
Total

Total



odd or even?

mate lines i winn ma mo



Draw lines to match these numbers to the odd or even eyeball.



odd

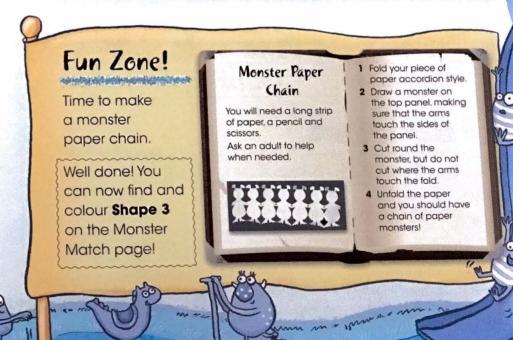
12 15 19 7 20 10

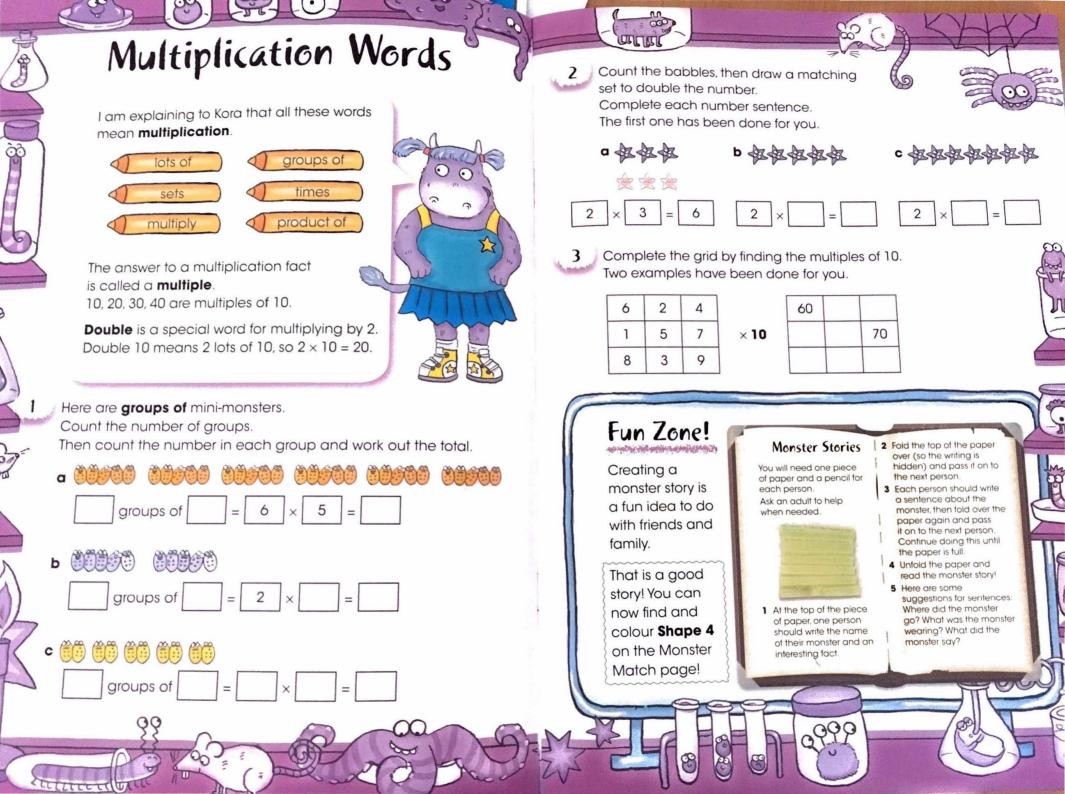
even

Find the secret word by colouring all the even numbers. Remember, all the numbers in the 2 times table are even.

3	8	14	10	1	6	4	20	11	6	1	17	9	12	3
9	11	6	7	3	18	15	19	7	10	14	13	7	16	5
5	7	12	5	13	14	12	8	3	4	11	18	1	8	19
15	3	20	17	19	4	11	17	5	20	15	13	12	4	1
19	17	2	1	13	6	10	18	19	16	17	11	3	2	13

The secret word is





5s and 10s

Tizz is playing with Nano. She notices that his monster-suit has a pattern on it.

There are lots of patterns in numbers too. Look for patterns in number sequences and number grids like these.

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

a

C

æ



2

The shaded numbers in the grid are all multiples of 5. Here are the same numbers written as a sequence:

5 10 15 20 25

Continue these number sequences.

a 30	40 50 0
b 0	5 15
c	60 50 40
d	35 30 20

									-
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

- Colour the numbers in the 5 times table yellow.
 Draw a blue circle around the numbers in the 10 times table.
 What patterns do you notice?
- **b** Draw a red circle around the numbers in the 2 times table. Have you put a red circle around any of the yellow or blue circle numbers?
- c Write the first 5 numbers that all appear in the 2, 5 and 10 times tables.

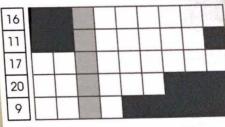
Fun Zone!

Write the numbers as words in the boxes. The shaded letters spell out a number, what is it?

Congratulations! You can now find and colour **Shape 5** on the Monster Match page!

0

0



The shaded word is

3

(do

Monster Multiplication

Tizz is working out how many monsterberries are in her cakes.

Each cake contains 5 monsterberries. 2 cakes containing 5 monsterberries equals 10 monsterberries in total.

Multiplication can be done in **any order**. $2 \times 5 = 5 \times 2$ $5 \times 10 = 10 \times 5$

This means you can find multiplication facts for tables you have not learned yet.

2 × 6 becomes 6 × 2 ... 6 lots of 2... 2, 4, 6, 8, 10, 12 2 × 6 = 6 × 2 = 12

Complete these multiplication grids.

For each square multiply the top number by the number on the far left.

Some examples have been done for you (in a, 3×10 or $10 \times 3 = 30$).

х	3	2	5
10	30		
5			
2			

2

Х

4

3

10

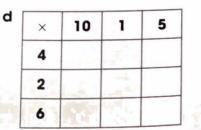
00

10

5

20

c	×	4	5	3
	10			
	2			
	5		25	



00 00 00

- 2 Colour the mugs to show the groups.
 - $\begin{array}{c} \mathbf{s} \times 2 \\ 2 \times 5 \\ \mathbf{b} & \mathbf{b$

3 Complete the number sentences by turning these multiplications around to make them easier.

a $2 \times 7 = 7 \times 2 =$ **b** $5 \times 4 = \times 5 =$ **c** $2 \times 9 = \times =$

Fun Zone!

Practise your monster walk!

0

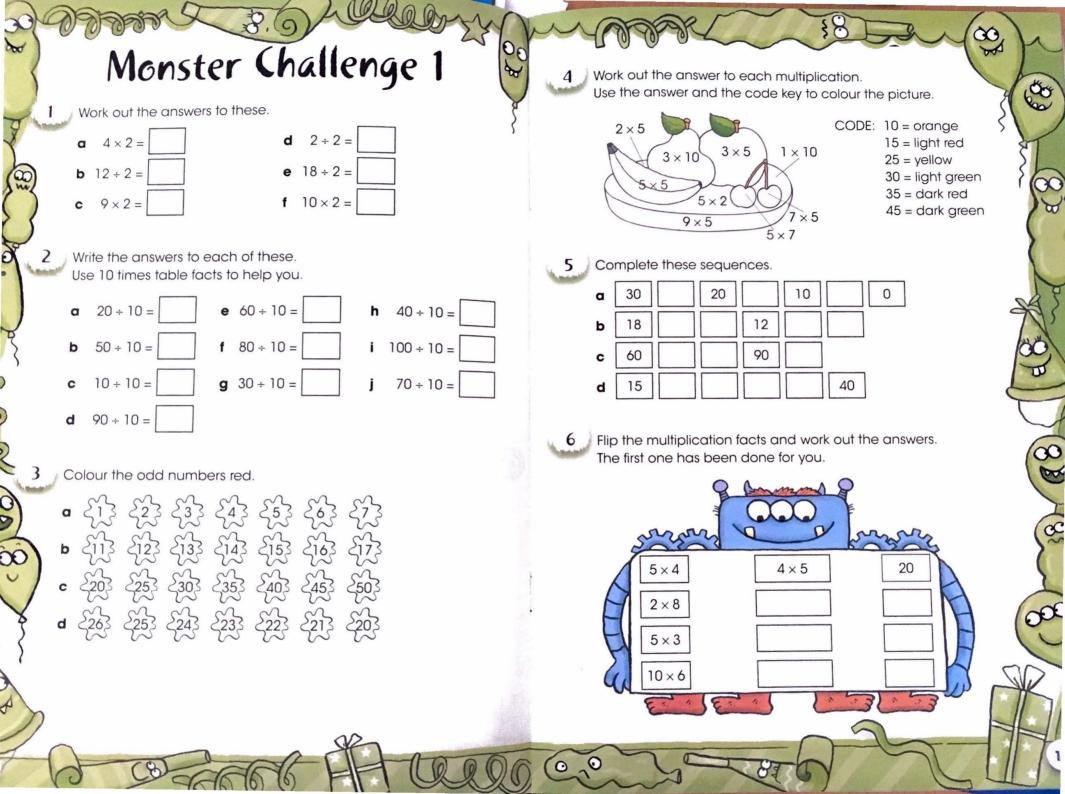
C

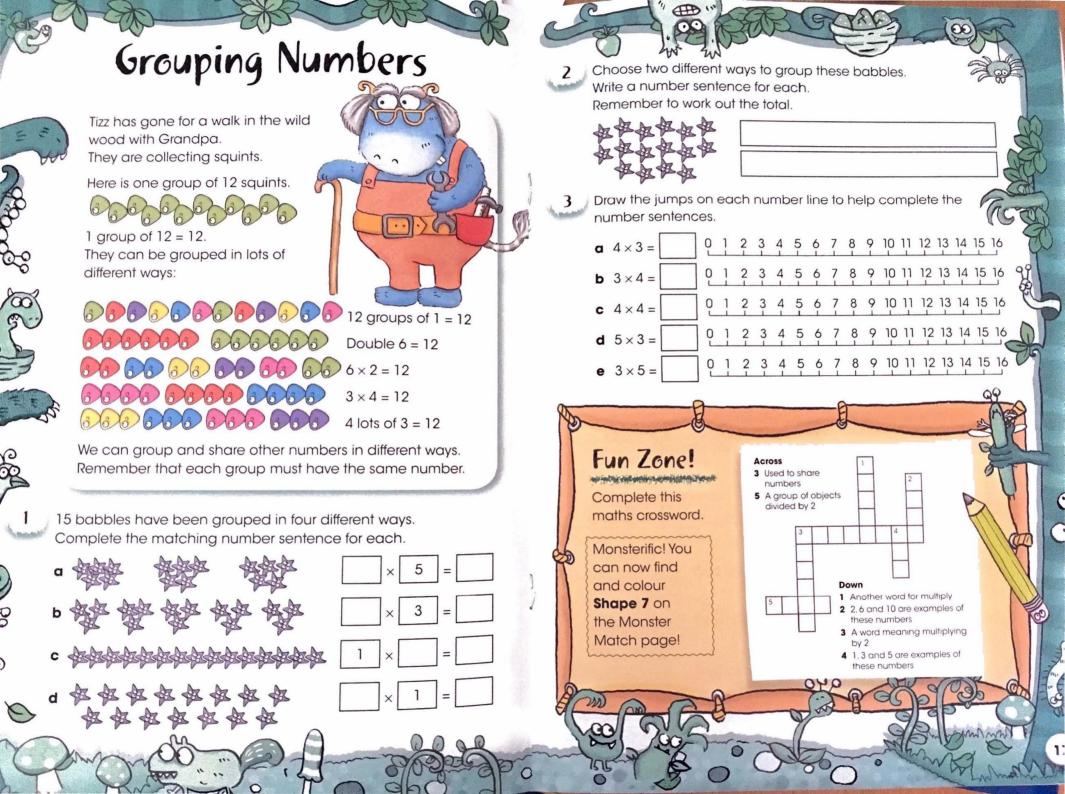
Scary! You can now find and colour **Shape 6** on the Monster Match page! Can you do different walks? A stomping walk, a hunched walk, a walk using scary monster hands, a bow-legged walk. 00

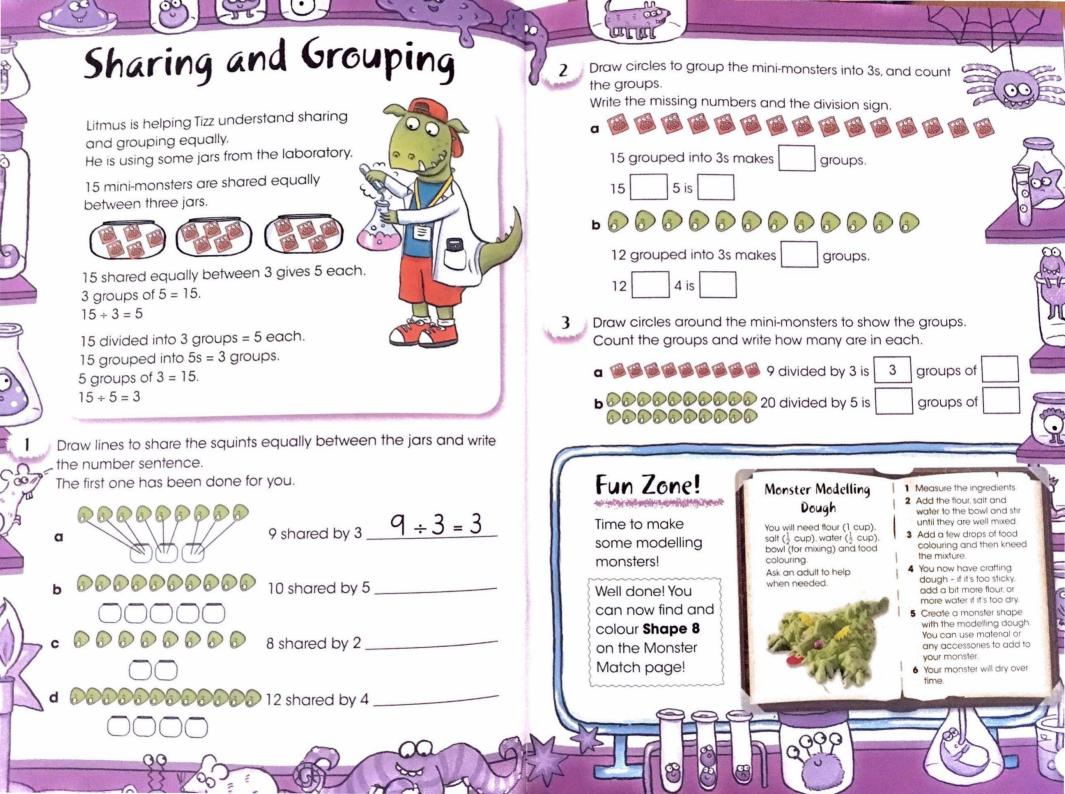
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Practise with your friends and family. Who can do the best monster walk?







Disappearing Digits

I am sticking photographs into an album. How many go on each page?

There is a close link between multiplication and division. I have 5 pages in my album and 10 photographs.

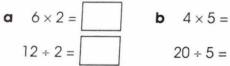
I will use this to try and work out how many photographs go on each page.

I know $5 \times 2 = 10$ so $10 \div 5 = 2$. That is 2 photographs on each page.

These three numbers belong to a calculation family.

Opposite calculations are called **inverse** calculations.

Write the answer to the multiplication. Use the calculation family to work out the inverse.



2



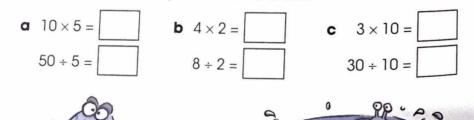
c $4 \times 3 =$

12 ÷ 3 =

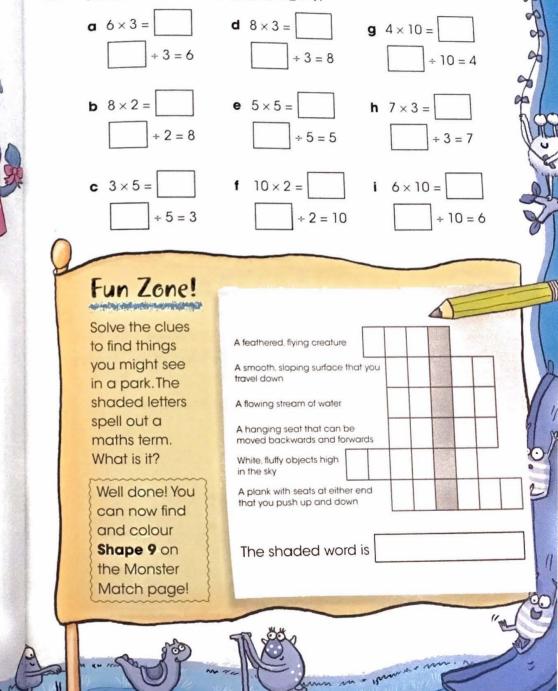
mm m.

Use the link between multiplication and division to write the answers to these pairs of calculations.

Junn m .



3 Write the missing numbers. Remember, $9 \times 2 = 18$ and 18 + 2 = 9



1-Step Multiplication

Fizz collects monster cards. She is using her cards to understand multiplication problems.

Multiplication problems become easier if you learn your facts. You could use a number line too. What do you need to count in? How many jumps?

Fizz has 4 cards.

OPIS

Kora has 3 times more cards than Fizz. How many cards does Kora have? What is 3 times 4?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

 $3 \times 4 = 12$ Kora has 12 cards

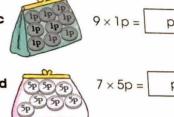
Write the multiplication fact for each problem to find the answer. The first one has been done for you.

a Nano has 5 monster toys, but Poggo has double this. How many toys does Poggo have?

Poggo has 5 × 2 = 10 toys.

- **b** If 1 monster has 4 eyes, how many eyes do 3 monsters have?
- c Kora, Litmus and Fizz each have 2 buns. How many buns do they have altogether?

- 2 Work out how much money is in each purse.
 - **a** (2p, 2p, 2p, 2p) = p **b** (10, 10p, 0p) = p**b** $7 \times 10p = p$



3 Answer each question below.

In further hand

00

- a 1 monster has 5 eyes.How many eyes do 4 monsters have?
- eyes
- b One snake is 2 metres long whilst another snake is twice as long.What is the length of the longest snake?
- c There are 2 shoes in a pair of shoes. How many shoes are there in 7 pairs?

metres

shoes

Fun Zone!

Find the five differences between these pictures of Tizz. Well done! You can now find and colour **Shape 10** on the Monster

Match page!

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1-Step Division

You can use multiplication facts and calculation families to solve division problems.

Otto has 30 spanners that he needs to put into toolboxes. Each toolbox holds 10 spanners. How many toolboxes does Otto need?

Using a number line, you can jump backwards in groups of 10. You can count the number of groups to get to 0...

0 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

30 grouped into 10s = 3, so we know Otto needs 3 toolboxes. $3 \times 10 = 30$ so, $30 \div 10 = 3$.

Write the multiplication fact to help you answer these. Then work out the division fact and answer. The first one has been done for you.

a Fizz and Tizz share 16 sweets equally between them. How many do they have each?

1 know 8 lots of 2 = 16 so $16 \div 2 = 8$ Answer = 8

b Tizz shares 20 pencils equally between 5 friends. How many do they have each?

Answer =

c Otto divides 12 spanners into 3 equal groups. How many are there in each group?

Answer =

- Answer these and draw the correct number of coins.
- **a** 40p = × 10p coins **b** 30p = × 5p coins **c** 12p = × 2p coins **d** 20p = × 5p coins

Answer these.

- Remember, half means divide by 2.
- There are 20 apples in a basket.
 Half the apples are red.
 How many apples are red?



- b A full packet has 10 biscuits.Half the packet has been eaten.How many biscuits have been eaten?
- Tizz has a ribbon 8 centimetres long. She gives half the length of ribbon to Fizz. What length do they each have?

centimetres

biscuits

Fun Zone!

Make a monster face from different shapes!

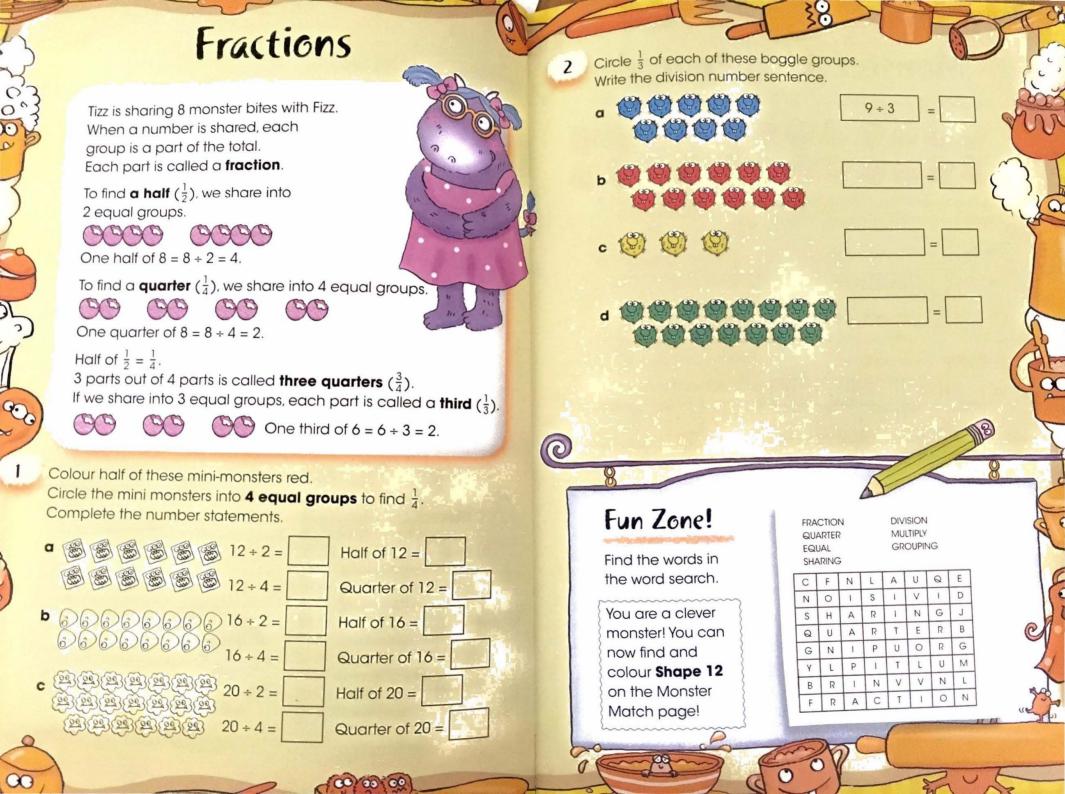
Monsterific! You can now find and colour **Shape 11** on the Monster Match page!

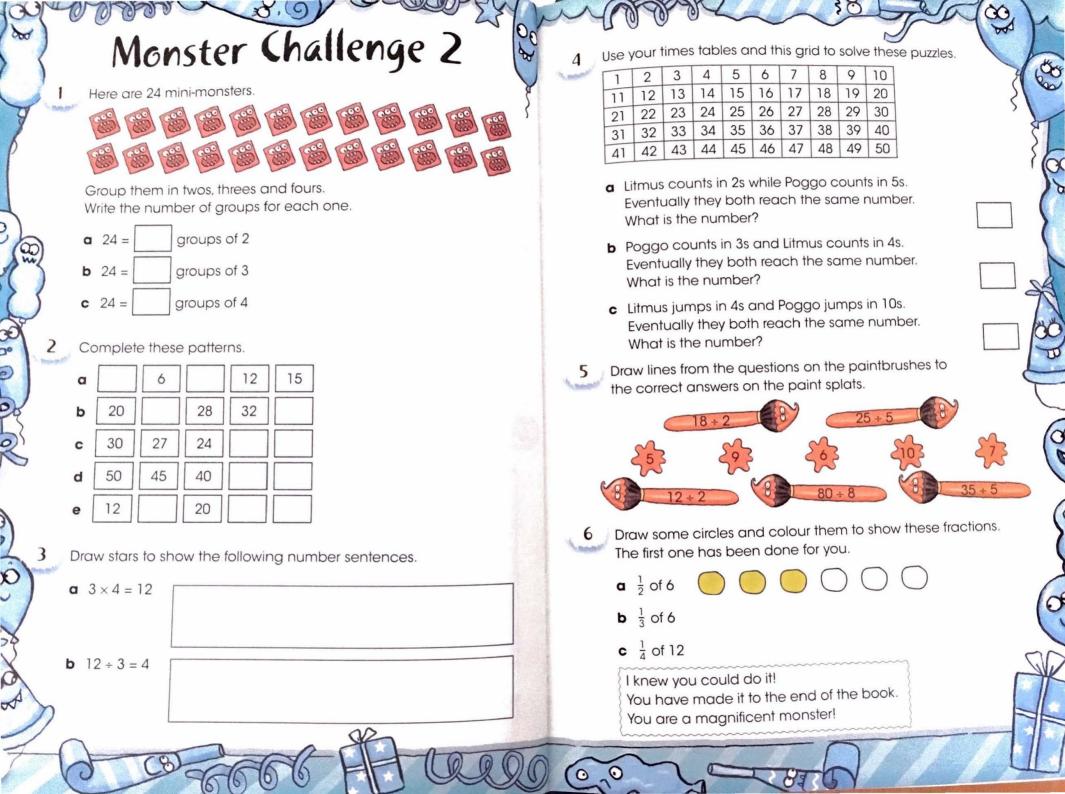
Monster Face

You will need coloured paper, crayons, scissors and glue.



- 1 Use the coloured paper to draw and cut out some hair for your monster.
- 2 Cut out large white circles and some smaller black circles. Glue the small circles onto the white circles for eyes.
- 3 Cut out some teeth and any other decorations You could attach the face to a wall or door using some reusable adhesive putty (Blue Tack™).





Answers

Page 2

1 2 + 2 + 2 + 2 + 2 = 2 = 126 lots of 2 = 12 6 x 2 = 12 How many groups of 2 in 12? 6 $12 \div 2 = 6$

Page 3

2	a	4	с	2	e	18	g	16	i	12
	b			8		10		6		20
3	а	5	с	3	е	9	g	8	i	6
	b	2	d	10	f	4	h	1	i	7
Pa	ge	4								

1 a 30 40 20 5 KORA

b 35 20 5 10 GRAN

Page 5

2	a	3	b	5	С	4	d	1	е	7	f	10
3	a	4	d	8	g	5	j	9	m	15		
	ь	70	е	10	h	5	k	6	n	8		
	с	1	f	50	i	50	1	30	0	7		

Page 6

1 a Total 8 even b Total 11 odd c Total 14 even Page 7

2 odd - 5, 15, 19, 1, 7 even - 2, 12, 20, 10, 8

3 The secret word is TEN

Page 8

1 a 6 groups of 5 = 6 × 5 = 30 **b** 2 groups of $5 = 2 \times 5 = 10$

c 5 groups of 2 = 5 × 2 = 10

Page 9

- 2 a 2 2 $2 \times 3 = 6$
 - **b** = = = = 2 × 5 = 10
 - c 2 × 7 = 14

3	60	20	40
	10	50	70
	80	30	90

Page 10

- 1 a 30 40 50 60 70 80 90
- **b** 0 5 10 15 20 25 30 35
- c 80 70 60 50 40 30 20 10
- d 50 45 40 35 30 25 20 15

Page 11 2

1	12	3	14	5	10	7	18	9	10
11	12	13	14	15	10	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
87	82	83	84	85	86	87	88	89	90
93	92	93	94	95	96	97	98	99	100

- a Pattern noticed
- Misses 5 and lands on 10 then misses 15 and lands on 20

8

- Misses 1st yellow and lands on 2nd yellow misses 3rd and lands on 4th
- Every other yellow number is blue as well 2 jumps of 5 make 10 so every other yellow
- number is blue as well b Yes
- c First five numbers: 10, 20, 30, 40, 50

Fun zone

16			s	1	X	T	B	E	N
11			E	ι	E	V	E	N	
17	S	E	V	E	N	T	E	Ε	N
20	T	W	E	N	T	Y		11.75	
9	N	1	N	E					

The shaded word is: seven

Page 12 ax

b

×	3	2	5	c	×	4	5	3
10	30	20	50		10	40	50	30
5	15	10	25		2	8	10	6
2	6	4	10		5	20	25	15
×	2	10	5	d	×	10	1	5
4	8	40	20		4	40	4	20
3	6	30	15		2	20	2	10
10	20	100	50		6	60	6	30

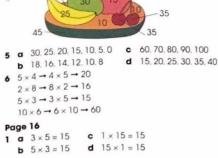
Page 13

2 a Image: A state of the state

3 a $2 \times 7 = 7 \times 2 = 14$ **c** $2 \times 9 = 9 \times 2 = 18$ **b** $5 \times 4 = 4 \times 5 = 20$ **d** $10 \times 4 = 4 \times 10 = 40$

Page 14

1	a	8	b	6	с	18	d	1	е	9	f	20
2	a	2	с	1	е	6	g	3	1	10		
	b	5	d	9	f	8	h	4	j	7		
3	NU	umb	ers c	olou	ured	red:						
	a	1,3	, 5. 7				c	25,	35, 4	5		
	b	11,	13, 1	5, 17	7		d	25,	23.2	1		



Page 17

Page 15

2 $8 \times 2 = 16$, $4 \times 4 = 16$; $1 \times 16 = 16$; $16 \times 1 = 16$; $2 \times 8 = 16$ c 4.8.12.16 e 5.10.15 3 a 3.6.9.12

d 3.6.9.12.15 **b** 4, 8, 12 Fun zone



1 a 9 + 3 = 3**c** 8 + 2 = 4

b 10+5=2 **d** 12+4=3

Page 19

- 2 a 15 grouped into 3s makes 5 groups. 15 + 5 is 3
- b 12 grouped into 3s makes 4 groups. $12 \div 4$ is 3
- 3 a 3 aroups of 3 b 4 groups of 5

Page 20

- 1 a $6 \times 2 = 12$ 12 + 2 = 6
- **b** $4 \times 5 = 20, 20 + 5 = 4$ **c** $4 \times 3 = 12$, 12 + 3 = 4
- **2** a $10 \times 5 = 50$, $50 \div 5 = 10$
- **b** $4 \times 2 = 8$, $8 \div 2 = 4$
- **c** 3 × 10 = 30, 30 + 10 = 3

Page 21

The shaded word is

3	a	18	С	15	e	25	g	40	i	60	
	b	16	d	24	f	20	h	21			
Fu	in	zone		p	r d						

Page 22 **1 b** Three monsters have $3 \times 4 = 12$ eves **c** They have $3 \times 2 = 6$ buns altogether Page 23

2 a 12p b 70p c 9p d 35p 3 a 20 eyes b 4 metres c 14 shoes







- a 1 know 8 lots of 2 = 16 so 16 + 2 = 8
- **b** 1 know 5 lots of 4 = 20, so 20 + 5 = 4 Answer = 4
- c | know 4 lots of 3 = 12, so 12 + 3 = 4 Answer = 4

Page 25

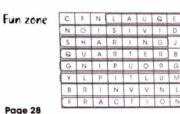
- 2 a 4 × 10p coins c 6 x 2p coins
 - d 4 x 5p coins b 6 × 5p coins
- 3 a 10 apples b 5 biscuits c 4 centimetres

Page 26

- 1 a 12 + 2 = 6 Half of 12 = 612 + 4 = 3. Quarter of 12 = 3
 - **b** 16 + 2 = 8 Half of 16 = 8
 - 16 + 4 = 4, Quarter of 14 = 4
 - **c** $20 \pm 2 \equiv 10$ Half of 20 = 10
 - 20 + 4 = 5. Quarter of 20 = 5

Page 27 2

2	a	9 + 3 = 3	С	3 + 3 = 1
	b	12 + 3 = 4	d	15 + 3 = 5



1 a 12 b 8 c 6 2 a 3 6 9 12 15 d 50, 45, 40, 35, 30

b 20. 24, 28, 32, 36 e 12.16.20.24.28 c 30, 27, 24, 21, 18 3 a bS

Page 29

- 4 a 10 b 12 c 20
- **5** 18 + 2 = 9,25 + 5 = 5,12 + 2 = 6,80 + 8 = 10. $35 \div 5 = 7$
- 6 a 00000