



## Multiplication and Division

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Series Author:

Nicola Herringer

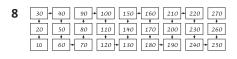
#### Pages 1–2

**1** 5; 10; 15; 20; 25; 30; 35; 40; 45; 50; 55; 60

5	b	75	с	40
10		80		45
15		85		50
20		90		55
25		95		60
	10 15 20	10 15 20	10     80       15     85       20     90	10     80       15     85       20     90

**3a** 5

- **b** 9
- **c** 6
- **d** 10
- **e** 7
- **f** 8
- **4a** 40
- **b** 15
- **c** 50
- **d** 20
- 5 10; 20; 30; 40; 50; 60; 70; 80; 90; 100; 110; 120
- **6** 7; 25; 6; 9; 3; 2; 4
- **7** 3; 50; 2; 90; 6; 7; 100





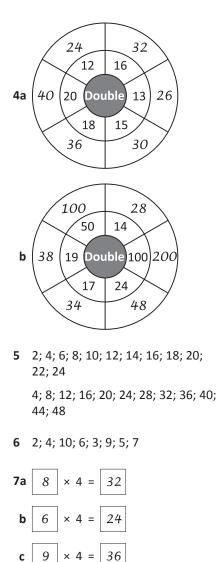
The  $\times$  10 row is double the  $\times$  5 row.

#### Pages 3–4

- **1** 6; 8; 10; 12; 14; 16; 18; 20
- **2** 2; 4; 6; 8; 10; 12; 14; 16; 18; 20; 22; 24

24; 14; 20; 12; 16; 2; 18; 8; 6; 4; 10; 22

**3** 26; 28; 30; 32; 34; 36; 38; 40



8	A	3	12	A	8	32
	4	1	3	2	7	1
	16	5	3	8	2	9
	3	4	6	24	14	4
	2	8	16	7	9	36
	9	2	18		2	20

#### Page 5

**1** 4; 8; 12; 16; 20; 24; 28; 32; 36; 40; 44; 48

8; 16; 24; 32; 40; 48; 56; 64; 72; 80; 88; 96

- **2a** 48
- **b** 32
- **c** 72

3 16 × 2 = 32
32 × 2 = 64
64 × 2 = 128

#### Pages 6–7

**3a** 9

- 3; 6; 9; 12; 15; 18; 21; 24; 27; 30
   6; 12; 18; 24; 30; 36; 42; 48; 54; 60
- **2** 18; 12; 24; 54; 24; 15; 48; 27; 30

	-												
b	3												
С	6												
d	6												
е	8												
f													
	3												
	7												
	6												
	6												
	8												
Ι	3												
	4 × 6	16 × 3	3 3 >	8 3	× 10	8 × 6							
4	30	48		2		24							
	3 × 4	2 × 3	3 5 7	6 6	× 2	1 × 6							
_		1		2									
5		4		2	7								
	<sup>3</sup> 1	8				<sup>4</sup> 6							
			<sup>₅</sup> 5		<sup>6</sup> 3	0							
	7 2		4		6								
	<sup>8</sup> 4	2		9 1		<sup>10</sup> 2							
				8		1							
6													
Ŭ	24												
	24 ge 8												
Ра		= 10	+ 2	]→	2 × 6	= 12							

4 → 4 × 6 =

24

**b**  $4 \times 5 = 20 +$ 

#### Page 8

	× 5	Number to add	× 6
2b	2 × 5 = 10	2	2 × 6 = 12
С	7 × 5 = 35	7	7 × 6 = 42
d	4 × 5 = 20	4	4 × 6 = 24
е	6 × 5 = 30	6	6 × 6 = 36
f	9 × 5 = 45	9	9 × 6 = 54

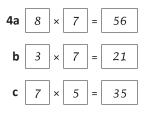
#### Pages 9–10

**1** 7; 14; 21; 28; 35; 42; 49; 56; 63; 70; 77; 84

#### **2a** 9



- **c** 3
- **d** 4
- **e** 10
- -•
- **f** 2
- **g** 8
- **3a** 28
- **b** 49
- **c** 14
- **d** 35
- . .
- **e** 63
- **f** 21



1 × 8 = 8	1	1 × 7 = 7
2 × 8 = 16	2	2 × 7 = 14
3 × 8 = 24	3	3 × 7 = 21
4 × 8 = 32	4	4 × 7 = 28
5 × 8 = 40	5	5 × 7 = 35
6 × 8 = 48	6	6 × 7 = 42
7 × 8 = 56	7	7 × 7 = 49
8 × 8 = 64	8	8 × 7 = 56
9 × 8 = 72	9	9 × 7 = 63
10 × 8 = 80	10	10 × 7 = 70
11 × 8 = 88	11	11 × 7 = 77
12 × 8 = 96	12	12 × 7 = 84

#### **6a** 4

5

- **b** 5
- **c** 3
- **d** 6

#### **6e** 7

**f** 2

 \*
 11
 4
 2
 6
 1
 12
 9
 5
 3
 7
 8

 8
 88
 32
 16
 48
 8
 96
 72
 40
 24
 56
 64

 7
 77
 28
 14
 42
 7
 84
 63
 35
 21
 49
 56

#### Pages 11–12

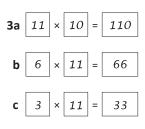
- **1** 9; 18; 27; 36; 45; 54; 63; 72; 81; 90; 99; 108
- **2**a 27
- **b** 36
- **c** 54
- **d** 18
- **e** 45
- **f** 9
- **3a** £54
- **b** £24
- **c** £9
- **d** £45
- **e** £18
- **f** £21

4	× 10 table	Number to subtract	× 9 table
	1 × 10 = 10	1	$1 \times 9 = 9$
	2 × 10 = 20	2	2 × 9 = 18
	3 × 10 = 30	3	3 × 9 = 27
	4 × 10 = 40	4	4 × 9 = 36
	5 × 10 = 50	5	5 × 9 = 45
	6 × 10 = 60	6	6 × 9 = 54
	7 × 10 = 70	7	7 × 9 = 63
	8 × 10 = 80	8	8 × 9 = 72
	9 × 10 = 90	9	9 × 9 = 81
	10 × 10 = 100	10	$10 \times 9 = 90$
	11 × 10 = 110	11	11 × 9 = 99
	12 × 10 = 120	12	12 × 9 = 108

**5** 18; 54; 36; 72; 108; 27; 81; 90; 45; 63; 99

#### Page 13

- **1** 11; 22; 33; 44; 55; 66; 77; 88; 99; 110; 121; 132
- **2a** 33
- **b** 55
- **c** 77
- **d** 44
- **e** 99
- **f** 88



#### Page 14

 12; 24; 36; 48; 60; 72; 84; 96; 108; 120; 132; 144

2a	36				
b	60				
с	84				
d	48				
е	36				
f	108				
		1			
3a	3	×	12	=	36
		1 1			
b	12	×	6	=	72

12

=

#### Pages 15-16

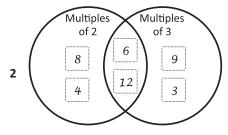
5 ×

С

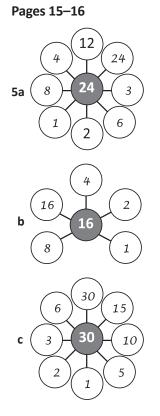
- **1a** 12, 18, 24, 30, 36, 42, 48, 54, 60, 72, 84
- **b** 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

60

- **c** 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120
- **d** 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36
- e 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48

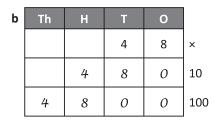


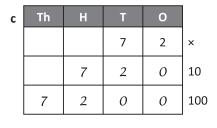
- **3** Sample answers: 18, 24, 30, 36, 42, 48, 54, 60
- **4a** 1 × 12 = 12
- **b** 2 × 6 = 12
- **c** 3 × 4 = 12
- **d** 1, 12, 2, 6, 3 and 4



Pages 17–18

1a	Th	Н	Т	0	
			1	5	×
		1	5	0	10
	1	5	0	0	100

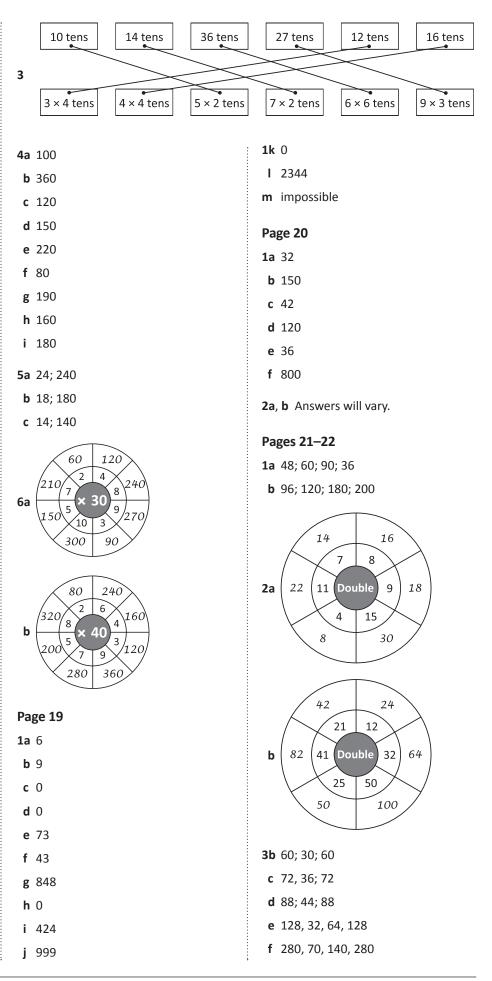




**2a** 14; 140; 1400

**b** 25; 250; 2500

**c** 82; 820; 8200

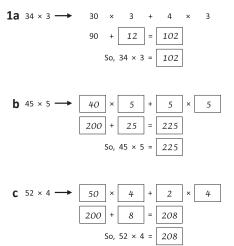


#### Pages 21-22

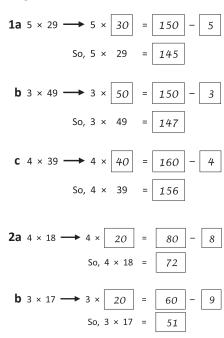
3g Sample answer:

14 × 8 = 112	
Double 14 once	28
Double 14 twice	56
Double 14 three times	112

#### Page 23



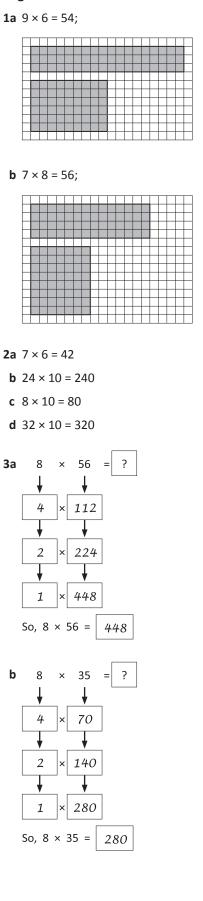
#### Page 24

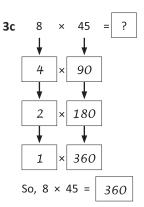


#### Page 25

1a-d Answers will vary.

#### Pages 26-27





**d** You eventually get to × 1 which is the answer.

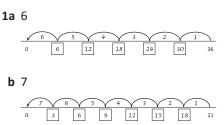
#### Pages 28-29

- **1** 24
- **2** 60
- **3** 72
- **4** 120
- **5** 168
- **6** 270

#### Pages 30-31

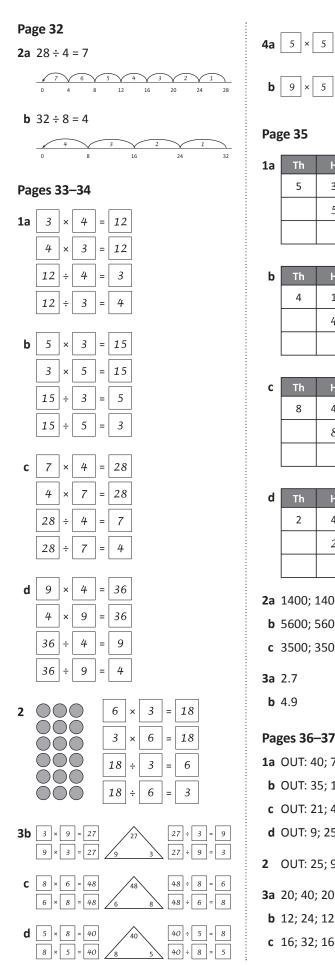
- **1a** 9 ÷ 3 = 3
- **b** 10 ÷ 2 = 5
- **c**  $24 \div 6 = 4$
- 2a Drawings will vary.;
  - 16 ÷ 4 = 4;
  - sharing
- **b** Drawings will vary.  $24 \div 6 = 4$ 
  - grouping
- c Drawings will vary.
   48 ÷ 6 = 8
   sharing

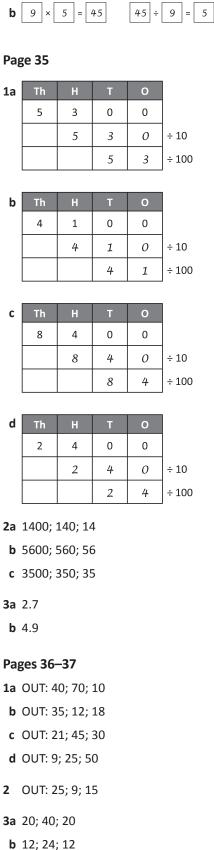
#### Page 32





5 × 5 = 25



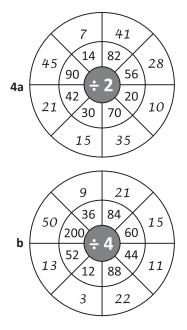


3d 30; 60; 30

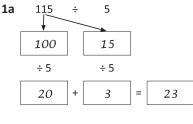
 $25 \div 5 = £5$ 

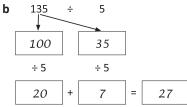
e 61; 122; 61

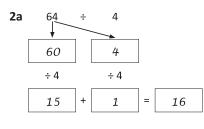
f 22; 44; 22

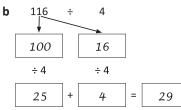


Page 38









Pages 42–43

1а Н

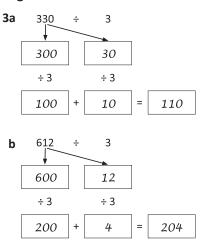
×

ТО

4 2

9





#### Pages 39-41

1b 16; Halve once = 32 Halve twice = 16

С	104;
	312 is 300 + 12
	300 ÷ 3 = 100 and 12 ÷ 3 = 4
	100 + 4 = 104

#### **d** 35;

Halve once = 70 Halve twice = 35

2	68 ÷ 4	4 =	17	s		90 ÷	- 6 =	15	р
	135 ÷ !	5 =	27	е		1,200 ÷	- 10 = [	120	f
	240 ÷ 4	4 =	60	0		128 ÷	- 4 =	32	t
	f	0	o	t	8	t	e	р	8
	120	60	60	32	17	32	27	15	17

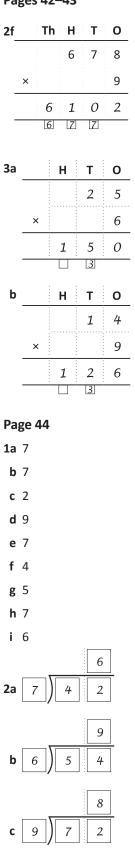
- **3** 11
- **4** 6
- **5** 8
- **6** 320
- **7** 31
- **8** 24

	^	: :		9
		3	7	8
		· · ·	1	
b		н	т	0
D		<u>п</u>		
			3	8
	×			7
		2	6	6
			5	
с		н	т	ο
			2	5
	×			4
	~			
		1	0	0
			L	
d		н	т	0
			2	6
	×			4
		1	0	4
			2	•
			:	_
е		н	Т	
			5	5
			• • • • • • • • •	
	×			8
	×	4	4	8 <i>0</i>
	×	4	4	
f	×	· · : _ :	4	0
f	×	· · ·	4 T	0 0
f		· · : _ :	4 T 6	0 0 2
f	×	H	4 T 6	0 0 2 7
f		H	4 T 6 3	0 0 2
f		H 4	4 T 6	0 0 2 7
f		H 4 H	4 T 6 3	0 2 7 4
		H 4	[4] T 6 3 [1]	0 2 7 4
		H 4 H	4 T 6 3 1 T	0 2 7 4 0 6
	×	H 4 H	4 T 6 3 1 1 T 8	0 2 7 4 0 6 6
	×	H 4 H	4 T 6 3 1 T	0 2 7 4 0 6 6

1h		Н	-	г	0
			9	Э	3
	×				5
		4	:	6	5
		. 4	÷.	1	
i		Н	-	r i	0
			-	7	7
	×		:		9
		6		9	3
		6		6	
2a		Th	н	т	ο
			1	2	3
	×				4
			4	9	2
				1	
b		Th	н	т	0
			2	5	6
	×				6
		1	5		6
		1	3	3	
с		Th	н	т	ο
			1	8	7
	×				8
		1	4	9	6
		1	6	5	
d		Th	Н	т	0
			3	4	2
	×				7 4
		2	3	9	4
		2	2	1	
е		Th	н	т	0
			4	6	5
	×				5 5
		2	3	2	5
		2	3	2	







Pages 45–46
<b>1a</b> 368 is <u>300</u> + <u>60</u> + <u>8</u>
<b>b</b> 445 is <u>400</u> + <u>40</u> + <u>5</u>
<b>c</b> 567 is <u>500</u> + <u>60</u> + <u>7</u>
<b>d</b> 235 is <u>200</u> + <u>30</u> + <u>5</u>
<b>2a</b> 578
<b>b</b> 794
<b>c</b> 246
<b>d</b> 855
<b>3a</b> 211
<b>b</b> 231
<b>c</b> 421
<b>d</b> 244
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
3 1 2 b 3 9 3 6
2 0 3 5a 4 8 1 2
<b>3</b> 0 8 <b>b</b> 3 9 2 4
3     0     4       c 3     9     1     2
2 0 6
<b>d</b> 4 8 2 4
306
<b>6a</b> 3 9 1 8
1 0 2

		2		0		8	
6c	4	8		3		2	-
		2		0		4	
d	4	8		1		6	-
Pages 47–48							
	1	2	3	4	5	6	

						,,				
	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
1a	41	42	43	44	45	46	47	48	49	50
10	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
	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
b	41	42	43	44	45	46	47	48	49	50
D	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
	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
с	41	42	43	44	45	46	47	48	49	50
C	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
	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
ام	41	(42)	43	44	45	46	47	(48)	49	50
d	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
			-			$\sim$				

 e Multiples of 6 are all also multiples of 3. When you count in 3s every other multiple of 3 is also a multiple of 6 because 2 × 3 = 6

#### Pages 47-48

2a 12; 18; 36; 42; 48

- **b** 27; 45; 63; 72
- c 28; 24; 16; 12; 4

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

No, because 52 is not a multiple of 3.

	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
4.0	41	42	43	44	45	46	47	48	49	50
4a	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



	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
b	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

#### 8s

#### Page 49

1a 63; Rule: multiply by 3

**b** 26; 13 Rule: divide by 2

2 16; 42; 94; to add 5 and multiply by 2 each time.

3a-c Answers will vary.

#### Pages 50–51

- **1a** 15; 20; 25; 50
- **b** 21; 28; 35; 70
- **c** 18; 24; 30; 60
- **d** 3; 6; 15; 30

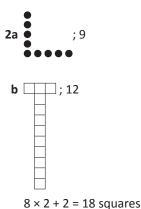
#### 2a Kate

**b** Brianna

3 002002002002002002002002002

#### Pages 52–53





#### Page 54

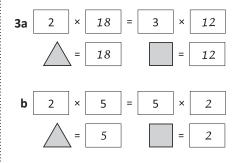
- **1a** × 6 **b** ÷ 7
- **2a** OUT: 9; 12; 5
- **b** OUT: 56; 35; 84
- **3a** IN: 10; 7; 4
- **b** IN: 72; 36; 54

#### Page 55

1a 2; 6 × 2 = 12
b 5; 4 × 5 = 20
2a 8; 8 × 7 = 56
b 9; 6 × 9 = 54

# Pages 56–57 1a 45; 45 b 42; 7; 42 c 9 d 7





#### Page 58

1a 75
b £5 × 8 − £15 = ▲; £25
c 5000 − 2700 = ▲; 2300

**2** 5

#### Page 59

What to do Observe students.

#### Page 60

#### What to do

×	7	4	3
6	42	24	18
9	63	36	27
5	35	20	15
9	63	36	27

×	3	5	7
4	12	20	28
6	18	30	42
9	27	45	63

×	1	5	8
8	8	40	64
3	3	15	24
9	9	45	72

×	2	7	9
2	4	14	18
1	2	7	9
6	12	42	54

#### Pages 61–62

What to do Observe students.

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## **Multiplication facts**

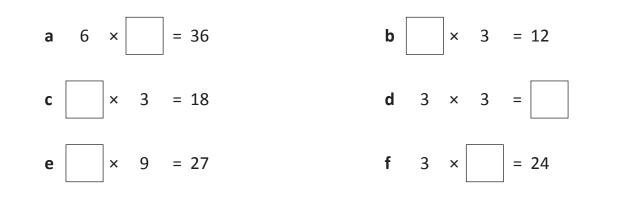
Name



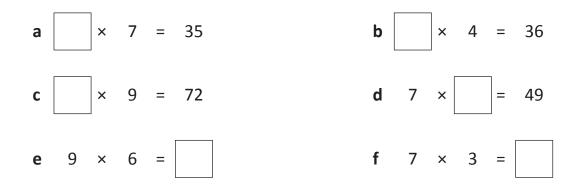
### 1 Complete this grid:

×	3	9	10	7	1	5	4	8	2	6
4										
8										
2										

2 Write the missing numbers in these × 3 and × 6 facts:



Write the missing numbers in these × 3 and × 6 facts: 3

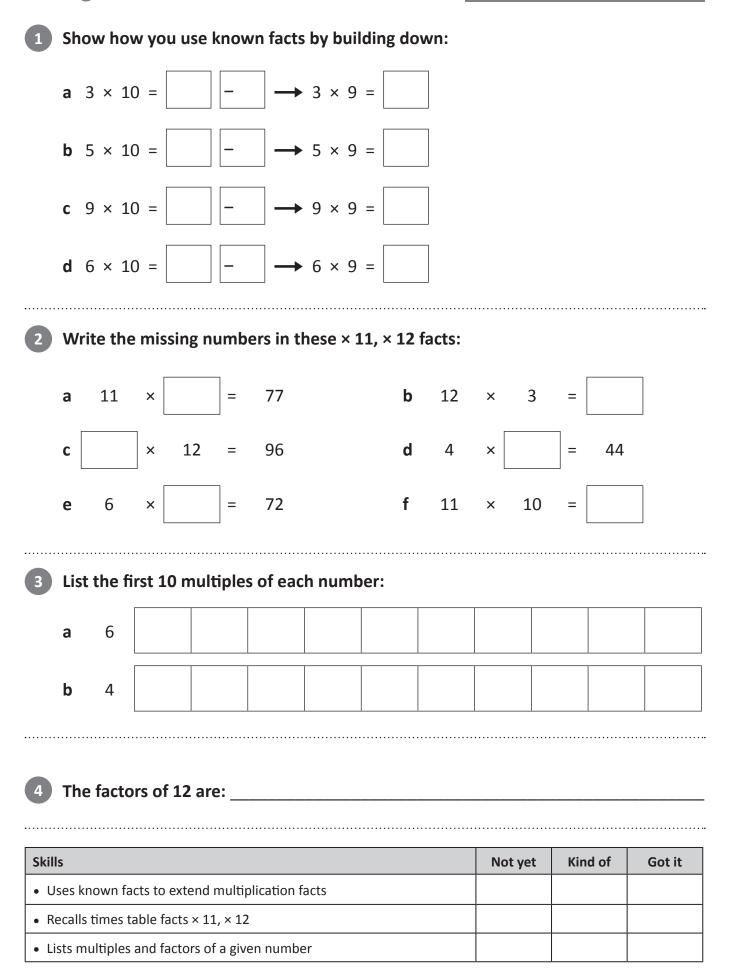


Skills	Not yet	Kind of	Got it
• Recalls times table facts × 2, × 4, × 8			
• Recalls times table facts × 3, × 6			
• Recalls times table facts × 7, × 9			



## Using known facts

Name



## Mental multiplication strategies

Name \_\_\_\_\_

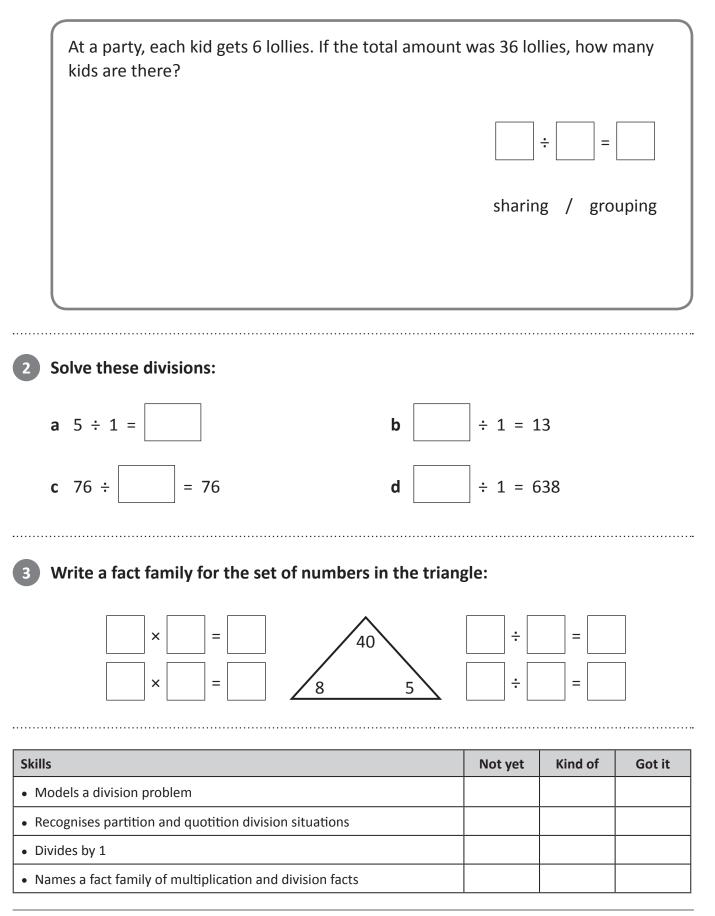
**1** Use the double-double strategy and double-double-double strategy to multiply by 4 and 8:

а	12 × 4 =		b	13 × 8	=	
	Double 12 once			Double 13 once		
	Double 12 twice			Double 13 twice		
				Double 13 three	times	
2 Sh	ow how to use each strat	egy:				
а	The split strategy:					
	55 × 5>			Sc	,55 × 5	=
	The compensation strate	gy:		So	o, 19 × 4	=
3 So	lve these multiplications	:				
а	17 × 1 =	<b>b</b> 0 × 2	29 =	] c 32	24 ×	] = 0
d	× 38 = 38	<b>e</b> 3 × 4	4 × 5 =	<b>f</b> 7	× 2 ×	= 56
Skills				Not yet	Kind of	Got it

Skills	Not yet	Kind of	Got it
Uses double-double strategy and double-double-double strategy			
Uses the split strategy			
Uses the compensation strategy			
Multiplies by 0 and 1			
Multiplies three 1-digit numbers			



Draw an array to show this division question. Then write the division fact and decide whether it is a sharing or a grouping question:



## Mental division strategies

Complete the halving wheel: Divide these by 10 and 100: 2 **a** 520 ÷ 10 = 30 70 **b** 4300 ÷ 100 = 18 50 Halve 12 14 **c** 1600 ÷ 10 = 32 20 **d** 2000 ÷ 100 =

Name

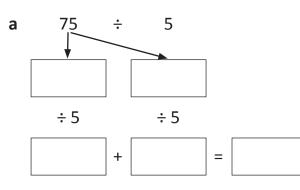
Use the tables for the halving strategy to divide by 4:

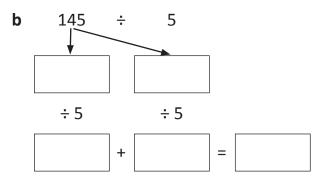
а	80 ÷ 4 =						
	Halve 80 once						
	Halve 80 twice						

b	64 ÷ 4 =	=
	Halve 64 once	
	Halve 64 twice	

4

Use the split strategy to divide by 5:

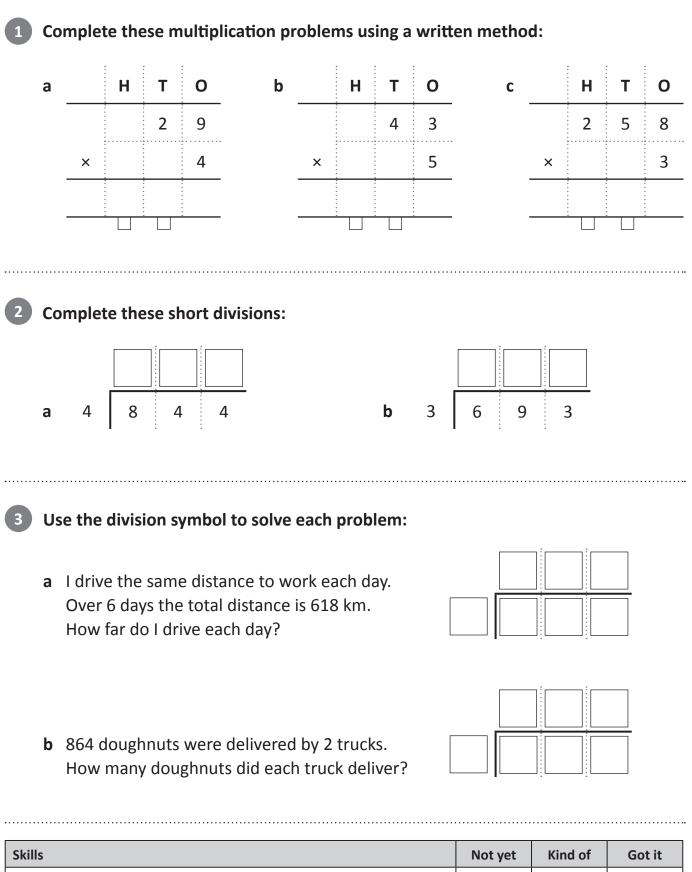




Skills	Not yet	Kind of	Got it
• Divides 3- and 4-digit numbers by 10 and 100			
Uses the halving strategy			
Uses the split strategy with division			

## Written methods

Name







## Each child has 4 buttons on their school shirt. Complete the table to show how many buttons different amounts of children have.

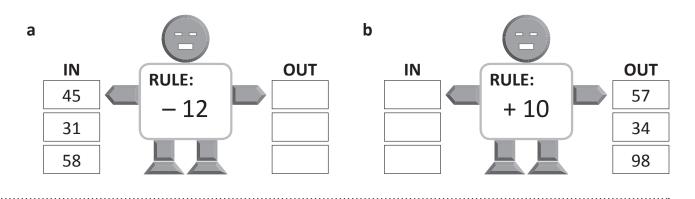


Number of children	1	2	3	4	5	10
Number of buttons	4					

- **a** How many buttons do 20 children have?
- **b** How did you work this out?

.....

#### **Complete these function machines.**



Complete the table for each sequence of matchstick shapes and find the number of matchsticks needed for the 10th shape:

Shape 1	Sha	pe 2	Shape 3				
Shape number	1	2	3	4	5	10	
Number of matchsticks	6						

Skills	Not yet	Kind of	Got it
Completes a shape or number pattern by following a function rule			
Can write a rule to describe input and output relationships			



2

## Patterns and algebra

Name

4

#### Colour the skip counting pattern for 4s up to 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

a If you kept going on a complete hundred grid, would 54 be coloured in?
 Yes / No

**b** How can you tell without using a whole hundred grid?

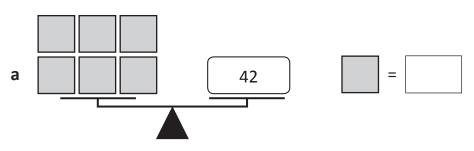
5

#### Complete a number sequence for each rule:

Rules	Sequences								
× 2 + 1	2								
× 2 – 1	2								
× 3 – 1	2								



#### Find the value of the symbol:



 b Mia saved £9 of her pocket money each week over 6 weeks but then spent £15. How much did she have at the end of 6 weeks? Write an equation using a symbol to represent the unknown and show your working in the space on the right:

(		)
l		
		/

Skills	Not yet	Kind of	Got it
Completes a number pattern and write the rule in words			
Completes a number pattern with 2 operations			
Finds the value of a symbol			

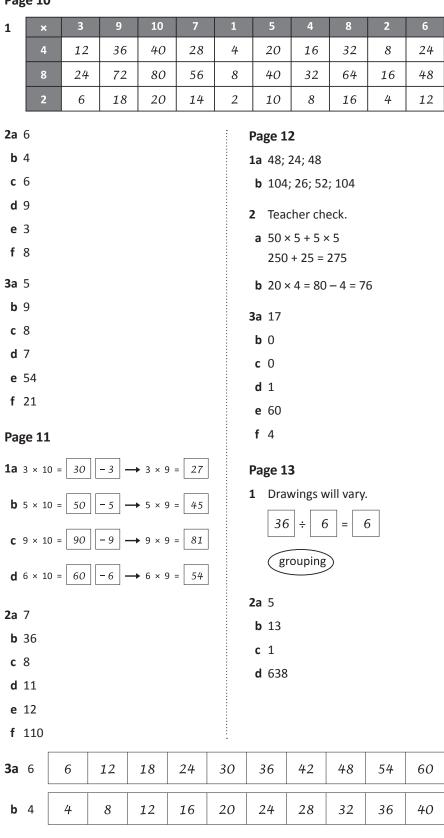


Series E – Multiplication and Division – Student Progress Record

1		
Name	Class	Date
What went well:		
What I need to improve:		
Series E – Multiplication a	ınd Division – Studer	nt Progress Record
Series E – Multiplication a	ınd Division – Studer	nt Progress Record
Series E – Multiplication a		
Name	Class	
Name	Class	
Name	Class	Date
Name           What went well:	Class	Date
Name           What went well:	Class	Date
Name           What went well:	Class	Date
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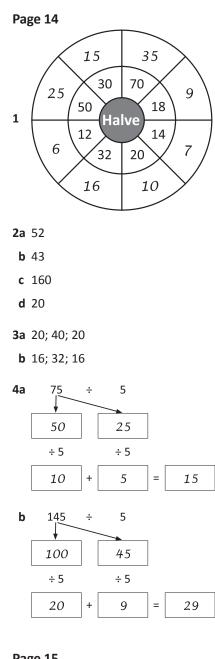
#### **ASSESSMENT ANSWERS**

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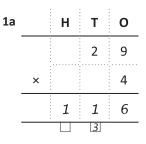


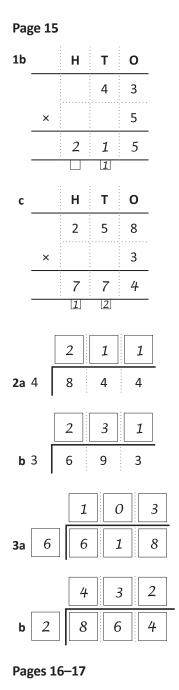
4 1, 12, 2, 6, 3, 4

3	8	×	5	=	40	$40 \div 8 = 5$	6
	5	×	8	=	40	$40 \div 5 = 8$	3









**4b** 54 is not in the 4 times table.

5	Rules	Sequences						
	× 2 + 1	2	5	11	23	47	95	
	× 2 – 1	2	3	5	9	17	33	
	× 3 – 1	2	5	14	41	122	365	

#### **6**a 7

**b** (£9 × 6) - £15 =  $\triangle$ £54 - £15 = £39  $\triangle$  = £39

\*Choice of symbol will vary.

1

3

4a

**a** 80

8

by 4.

12

No

2a OUT: 33; 19; 46b IN: 47; 24; 88

18

12

14

**b** Multiplied the number of children

24

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

20

60

40

Торіс	Reference	Strand	Substrand	Objective
Multiplication Facts	4C6a	Number	Calculation	Recall multiplication and division facts for multiplication tables up to 12 × 12.
Using Known Facts	4C6c	Number	Calculation	Recognise and use factor pairs and commutativity in mental calculations.
Division	3C7	Number	Calculation	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods.
Mental Strategies	4C6b	Number	Calculation	Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
Written Methods	4C7	Number	Calculation	Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout.
Patterns and Algebra	4C8	Number	Calculation	Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
Games and Investigations	4C8	Number	Calculation	Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.