



5×3=155×3=15

Multiplication and Division

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Pages 7–8

b 4 **c** 10

(
1a	30, 35, 40, 45, 50, 55, 60, 65, 70, 75
b	55, 60, 65, 70, 75, 80, 85, 90, 95, 100
2a	$ \begin{array}{c} & & & & & & \\ \hline & & & & & & \\ & & & & & & \\ & & & & $
b	$\begin{array}{c} & & & & & \\ \hline & & & & \\ 0 & 5 & 10 & \underline{15} & \underline{20} & \underline{25} & \underline{30} & 35 & \underline{40} & 45 & \underline{50} \end{array}$ This is the same as 7 × 5 = 35
3b	8 × 5p = 40p
с	5 × 5p = 25p
4	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60
5a	10
b	40
С	45
d	50
е	15
f	30
g	35
h	25
i	5
j	20
6a	7

- **6d** 3 **e** 8 **f** 2
- **g** 6 **h** 9

Page 10

- **1** 10; 20; 30; 40; 50; 60; 70; 80; 90; 100
- 2a 6,60
- **b** 4, 40
- **c** 8,80
- **3** 10; 20; 30; 40; 50; 60; 70; 80; 90; 100, 110, 120
- **4a** 5





















3a	1	(2)	3	\bigotimes	5	6	7	\otimes	9	(10)
	11	X	13	(14)	15	X	17	(18)	19	\bigotimes
	21	22)	23	\bigotimes	25	26	27	\bigotimes	29	30
	31	X	33	34)	35	X	37	38	39	Ø
	41	(42)	43	(\mathbf{A})	45	(46)	47	Ø	49	(50)

b The counting pattern of 4s is in the 2s counting pattern.

4a 6, 3

2a 4, 16

b 3, 12

c 7,28

d 9, 36

e 2,8

b 4, 8, 2, 8; 4, 2

4C 4
d 5
Page 17
1a 2; 16
b 4; 32
c 7; 56
2 0 8 16 24 32 40 48 56 64 72 80
3 10 3 7 8 1 11 4 0 9 2 12 6 5 *2 20 6 14 16 2 22 8 0 18 4 24 12 10 *4 40 12 28 32 4 44 16 0 36 8 48 24 20 *8 80 24 56 64 8 88 32 0 72 16 96 48 40
4a £32
b 56 km
c 8 packets
Pages 19–20
1 3 6 9 12 15 18 21 24 27 30
33, 36
2a 9
b 36
c 21
d 30
e 6
f 12
g 15
h 18
i 27
j 3
k 24
I 33
3a $6 \times 3 = 18$ $4 \times 3 = 12$
b $3 \times 3 = 9$ $10 \times 3 = 30$
C 9 × 3 = 27 5 × 3 = 15
4 0 3 6 9 12 15 18 21 24 27 30
5b 2 × 3 = 6; 3 × 2 = 6
c 5 × 3 = 15; 3 × 5 = 15
d 6 × 3 = 18; 3 × 6 = 18
e 7 × 3 = 21; 3 × 7 = 21
f 9 × 3 = 27; 3 × 9 = 27

Page 21

1a 6, 8, 10, 12, 14, 16, 18, 20, 22, 24

- **b** 12, 16, 20, 24, 28, 32; 36; 40, 44, 48
- c 24, 32, 40, 48, 56, 64, 74, 80, 88, 96
- **d** 9, 12, 15, 18, 21, 24, 27, 30, 33, 36
- 2a Students should cross out 12.
- **b** Students should cross out 22.
- c Students should cross out 25.

3a 12

b 20

c 16

Pages 22–23

1 Answers will vary.





2a 75, 80, 90

Pages 32–33



С	0000000
	0000000

3 Observe students.

28

Page 34

1a	4
b	3
С	24
d	35
е	18
f	4
2a	36 ÷ 4 = 9
b	12 ÷ 2 = 6
с	24 ÷ 8 = 3
d	27 ÷ 3 = 9
е	55 ÷ 5 = 11

Pages 35-36

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

b	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

1c 5s pattern ends in 5 or 10; 10s pattern ends in 0.

3	×	7	=	21
21] ÷	7	=	3
2	×	10	=	20
20]÷	10	=	2

7 = 28

7

4

4

21	b	32, 42, 52
= 21	C	90, 85, 75, 65
	d	82, 72, 52, 42, 32
= 20	3	40

4a	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
b	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

- 5a 33; 30; 21; 18; 15
- **b** 16; 28; 32
- **c** 48; 42; 40; 36
- **d** 37; 47; 67; 97

6a 36

b 48

Page 37

- **1a** 40 **b** 7
- **2a** ÷ 3 **b** × 4
- **3a** 8
- **b** 48
- 4a, b Answers will vary.

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6; 9; 12; 15; 60
 4; 6; 8; 40
 8; 12; 16; 80
 6; 9; 12; 60

Page 39

- **1a** 6; 9; 4, 12
- **b** 30
- **c** 10; 15
- **d** 50

Page 40

- **1a** 8; 12; 16; 20; 40
- **b** 10; 15; 20; 25; 50



Pages 41-42









Pages 41-42





Page 43

What to do Observe students.

Page 44

What to do 16; 31; 21; 48; 9; 24

Pages 45-46

What to do Observe students

Page 47

What to do Observe students.

Page 48

What to do

Harry	Tortista	
6	8	
9	12	
12	16	
15	20	
18	24	
21	28	
24	32	
27	36	
30		
33		
36		

They tie. Both run 12 km in 36 minutes.

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What to do Observe students.

What to do next Observe students.



Multiplication revision

Name _____



Complete the times tables facts:



Complete this grid:

×	8	3	6	10	1	9	4	7	5	2
10										

Connect the answers to the questions.



Skills	Not yet	Kind of	Got it
• Recalls times table facts × 5, × 10			
Multiplies numbers by 0 and 1			
Multiplies any number by 10			



2

Multiplication facts

Name _____

1

Complete the times tables facts:





Complete this times table grid:

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

3

Complete the list of multiples for 5:



Skills	Not yet	Kind of	Got it
• Recalls times table facts × 2			
• Recalls times table facts × 4			
• Recalls times table facts × 8			
• Recalls times table facts × 3			
Lists a set of multiples			



Mental multiplication strategies Name

Use the double-double strategy to multiply by 4: b а $15 \times 4 =$ $13 \times 4 =$ Double 15 once Double 13 once Double 15 twice Double 13 twice 2 Use the split strategy to multiply by 13: **a** What is 13 × 5? x = × = + = So, 13 × 5 = **b** What is 13 × 8? × = × = + = So, 13 × 8 =

3 Use the compensation strategy. First multiply by the closest multiple of ten and then build down.

a 3 × 29 → 3 ×	=	So, 3 × 29 =
b 4 × 39 → 4 ×	=	So, 4 × 39 =

Skills	Not yet	Kind of	Got it
Uses double-double strategy to multiply by 4			
Uses the split strategy			
Uses the compensation strategy			



Division

Name



f I skip 10 times in one minute.How many seconds does each skip take?

Complete the array and then write a matching multiplication and division fact.



Skills	Not yet	Kind of	Got it
• Recalls and uses division facts from ÷ 2, ÷ 5, ÷ 10			
• Recalls and uses division facts from ÷ 3, ÷ 4, ÷ 8			
Links multiplication and division facts			













Patterns and functions

Name

1

Complete this table and answer the questions:

Number of packets	1	2	3	4	5	20
Number of sweets	10			40	50	

a How many sweets in 20 packets?

b How did you work this out?



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			



Equations and equivalence Name



Series D – Multiplication and Division – Student Progress Record

Name	Class		
		Date	
nat went well:			
at I need to improve:			
Newse			
Name	Class	Date	
Name	Class	Date	
Name	Class	Date	
at went well:	Class	Date	
at went well:	Class	Date	
at went well:	Class	Date	
at went well:	Class	Date	
at went well:	Class	Date	
at went well:	Class	Date	
nat went well:	Class	Date	
nat went well:	Class	Date	
nat I need to improve:	Class	Date	
nat went well:	Class	Date	
hat went well:	Class	Date	
nat went well:	Class	Date	



- 2a RULE: + 3
- **b** RULE: 3

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Торіс	Reference	Strand	Substrand	Objective
Multiplication Facts	3C6	Number	Calculation	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.
Mental Multiplication Strategies	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.
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.
Patterns and Functions	3C8	Number	Calculation	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.
Equations and Equivalence	3C8	Number	Calculation	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.
Games and Investigations	3C8	Number	Calculation	Solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects.

