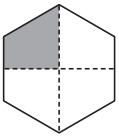
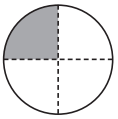
Series E – Fractions

Pages 1–2

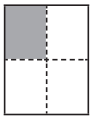
1a



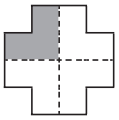
b



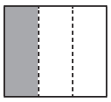
c



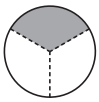
d



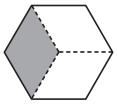
2a



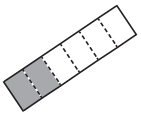
b



c



d



3a $\frac{3}{4}$

b $\frac{2}{6}$

c $\frac{2}{5}$

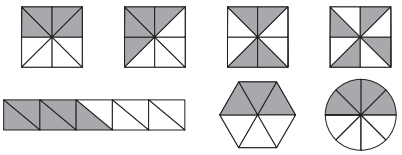
4

5

Shape	a	b	c	d	e	f
Fraction that is shaded	$\frac{1}{3}$	$\frac{7}{10}$	$\frac{3}{8}$	$\frac{3}{8}$	$\frac{1}{6}$	$\frac{1}{2}$
Fraction that is unshaded	$\frac{2}{3}$	$\frac{3}{10}$	$\frac{5}{8}$	$\frac{5}{8}$	$\frac{5}{6}$	$\frac{1}{2}$

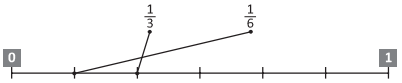
6 Answers will vary.

Sample answers:

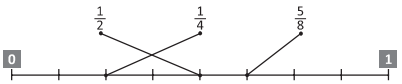


Pages 3–5

1a

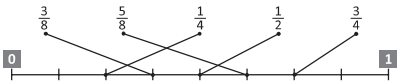


b

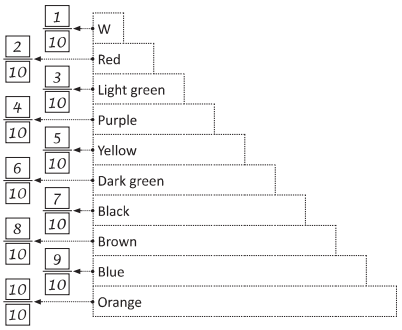


c

d



2



3a Brown

b Brown

c Light green

d Purple = $\frac{4}{10}$; Dark green = $\frac{6}{10}$

e Red = $\frac{2}{9}$; Light green = $\frac{3}{9}$;

Purple = $\frac{4}{9}$

4a $\frac{3}{4}$

b $\frac{1}{2}$

c $\frac{1}{4}$

5a $\frac{1}{2}$

b $\frac{1}{8}$

c $\frac{1}{4}$

6a $\frac{5}{6}$

b $\frac{3}{6}$ or $\frac{1}{2}$

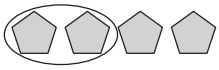
c $\frac{1}{6}$

7a

Purple
Red
White

Pages 6–8

1a



4 ÷ 2 = 2

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

b

8 ÷ 4 = 2

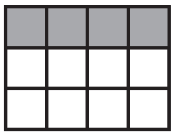
$\frac{1}{4}$ of 8 = 2

c

12 ÷ 4 = 3

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

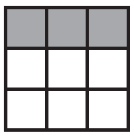
2b



12 ÷ 3 = 4

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

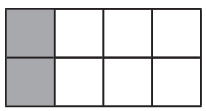
c



9 ÷ 3 = 3

$\frac{1}{3}$ of 9 = 3

3a



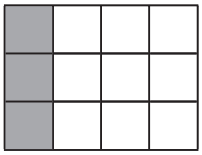
8 ÷ 4 = 2

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

Series E – Fractions

Pages 6–8

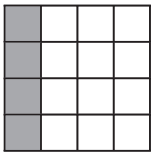
3b



12 ÷ 4 = 3

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

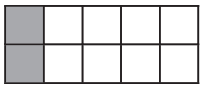
c



16 ÷ 4 = 4

$\frac{1}{4}$ of 16 = 4

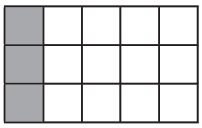
4a



10 ÷ 5 = 2

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

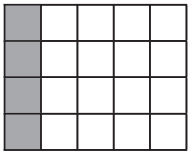
b



15 ÷ 5 = 3

$\frac{1}{5}$ of 15 = 3

c



20 ÷ 5 = 4

$\frac{1}{5}$ of 20 = 4

5a 4

b 3

c 3

d 3

e 2

f 5

6

7a 2; 4; 2

b 4; 8; 4

c 11; 5; 4

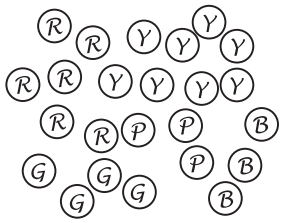
8a 6

b 3

c 8

d 4

e 3



Page 9

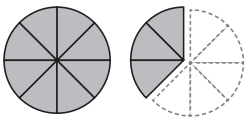
1 $\frac{1}{2}$ of £10 = £5 or £10 ÷ 2 = £5;
£5

2 8 × 4 = 32;
32 jelly beans

3 Marley ate $\frac{1}{4}$ of 8 = 2 pieces
Matt ate $\frac{1}{2}$ of 8 = 4 pieces
8 – 6 = 2;
2 pieces left

4 $\frac{1}{8}$ of 24 = 3 pink cupcakes
$\frac{1}{8}$ of 24 = 6 blue cupcakes
24 – 9 = 15;
15 plain cupcakes

5



So $1\frac{3}{8}$ is left.

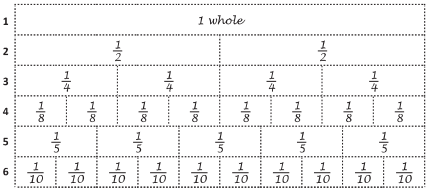
$1\frac{3}{8}$ pizzas

Pages 10–11

What to do

Observe students.

Page 12



Strips 5 and 6: $\frac{1}{5}$; $\frac{1}{10}$

Pages 13–14

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

b $\frac{4}{8}$

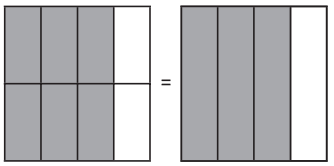
c $\frac{5}{5}$

d $\frac{5}{10}$

Observe students.

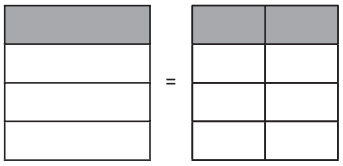
2 Answers will vary.
Sample answers:

a



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

b

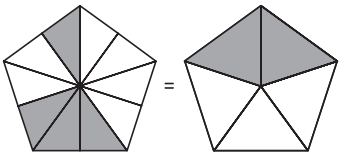


$\frac{1}{4} = \frac{2}{8}$

Series E – Fractions

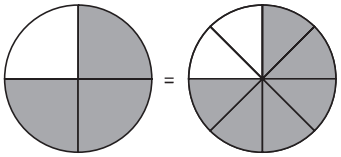
Pages 13–14

2c



$\frac{4}{10} = \frac{2}{5}$

d



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

3a T

b F

c F

d T

e T

f F

Pages 15–16

What to do

Observe students.

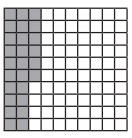
Page 17

1a 40, 100; $\frac{40}{100}$

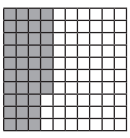
b 25, 100; $\frac{25}{100}$

c 19, 100; $\frac{19}{100}$

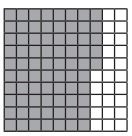
2a



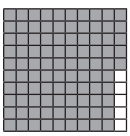
b



c



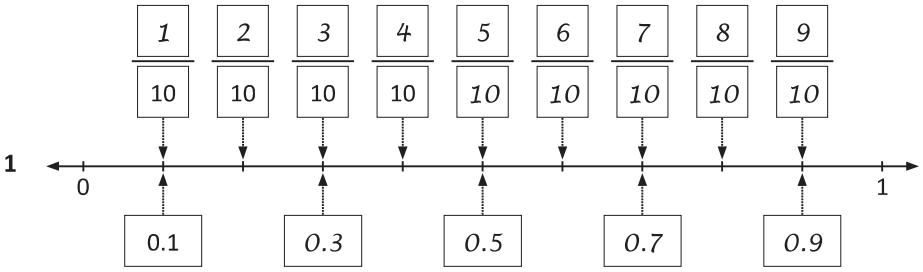
d



3 $\frac{26}{100}$ $\frac{37}{100}$ $\frac{75}{100}$ $\frac{95}{100}$

Page 18

1



2a $\frac{10}{10}$; 1.0

b $\frac{6}{10}$; 0.6

c $\frac{8}{10}$; 0.8

Page 19

1a

b

c

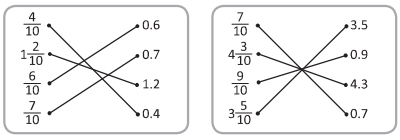
2a 0.2, $\frac{4}{10}$, 0.8, $\frac{9}{10}$

b 0.1, $\frac{5}{10}$, $\frac{9}{10}$, 1.0

3

	Ones		Tenths
a 0.6	0	•	6
b 2.7	2	•	7
c 5.1	5	•	1

4



Page 20

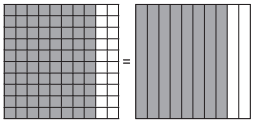
1a $\frac{24}{100}$; 0.24

b $\frac{32}{100}$; 0.32

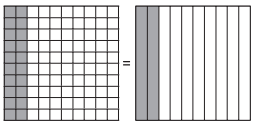
2a–f Teacher check

Pages 21–23

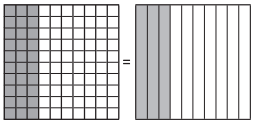
1a



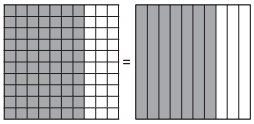
b



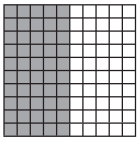
c



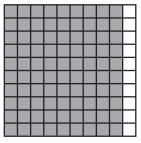
d



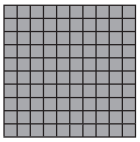
2a



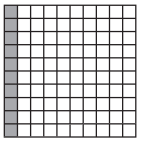
b



c



d



3a 2; 20; 0.2

b 6; 60; 0.6

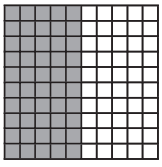
c 17; 0.17

d 27; 0.27

4

Hundreds	Tens	Ones		Tenths	Hundredths
		2	•	6	
		3	•	7	6
1	1	2	•	6	
	4	5	•	6	7

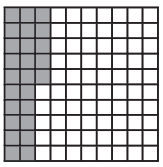
5a

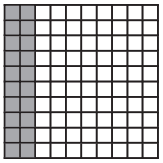


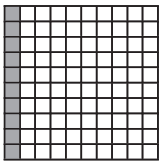
$= \frac{50}{100} = 0.5$

Series E – Fractions

Pages 21–23

5b  $= \frac{25}{100} = 0.25$

c  $= \frac{20}{100} = 0.2$

d  $= \frac{10}{100} = 0.1$

6a $\frac{50}{100} = 0.5$

b $\frac{80}{100} = 0.8$

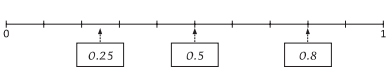
c $\frac{40}{100} = 0.4$

d $\frac{75}{100} = 0.75$

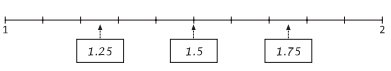
e $\frac{50}{100} = 0.5$

f $\frac{50}{100} = 0.5$

7a



b



Pages 24–25

1a

Tens	Ones		Tenths	Hundredths	
	8	•			
	0	•	8		÷ 10
	0		0	8	÷ 100

1b

Tens	Ones		Tenths	Hundredths	
	4	•			
	0	•	4		÷ 10
	0		0	4	÷ 100

c

Tens	Ones		Tenths	Hundredths	
2	7	•			
	2	•	7		÷ 10
	0		2	7	÷ 100

d

Tens	Ones		Tenths	Hundredths	
9	3	•			
	9	•	3		÷ 10
	0		9	3	÷ 100

2a 0.6

b 0.9

c 1.7

d 4.6

e 7.5

f 32.8

3a 0.17

b 0.06

c 0.63

d 0.02

e 0.48

f 3.19

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1a 3.7; 5.5; 5.7; 7.3; 7.5

b 23.2; 23.3; 30.1; 32.2; 33.2

2a 4.53; 4.34; 3.54; 3.43; 3.34

b 76.07; 70.67; 70.06; 67.76; 67.67

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1a 3

b 10

c 18

d 35

e 200

f 688

2a (46.6)

b (105.4)

c (377.5)

3a–f Answers will vary.

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1a $\frac{1}{4}$; 0.25

b $\frac{3}{4}$; 0.75

c $\frac{1}{2}$; 0.5

d $\frac{1}{2}$; 0.5

e $\frac{3}{4}$; 0.75

f $\frac{1}{4}$; 0.25

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1a 6

b 1.5 litres

c 0.09 kg

d £3.96

e £0.15

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What to do

Observe students.