

Answer Key Chapter 6

Student book

Chapter	6		
Check in	16		
1 a $\frac{7}{10}$	$b\frac{2}{5}$	$c\frac{2}{3}$	$d\frac{1}{5}$
$e \frac{1}{12}$	$f\frac{1}{9}$	2 Province	
2 a i $1\frac{3}{20}$	ii 3 $\frac{3}{5}$	iii $7\frac{3}{10}$	
b i $\frac{13}{10}$	ii <u>31</u> 8	iii $\frac{17}{3}$	tind units in the st
3 a 370	b 174	c 491 000	d 0.67
e 0.4 i 12	f 1700	g 0.22	h 197.5
Exercise 64			
4 a 420 e 0.28 i 2650		c 200 g 2.1 k 0.034	d 0.53 h 4 l 0.0921
5 a 0.7 e 1.8	f 1.72	c 0.04 g 6.3	d 0.17 h 2.56
6 175 000; 1			d 0.21
7 a 0.7 e 2.4	b 0.7 f 2.4	c 0.21 g 3.15	h 3.15
8 Multiplyin Multiplyin	g by $\frac{1}{10}$ is the g by $\frac{1}{100}$ is the	same as dividing same as dividin	g by 10 ng by 100

1	a 3.2	b 2.561	с	0.004	d	35.6
		f 0.5				0.07
		j 23			1	
2	0.9					
3	a 36 mm	b 3.6 cm				
4	a 0.07 kg	b 70 g				
	410 ÷ 1000					
	$410 \div 100$	= 4.1				
	410 ÷ 10 =	: 41				
	$410 \div 1 = -$	410				
	$410 \div \frac{1}{10} =$	4100				
	$410 \div \frac{1}{100}$	= 41000				
6	Dividing b	$y \frac{1}{10}$ is the same	ie as n	nultiplying	g by 1	0
	Dividing b	$y \frac{1}{100}$ is the same	ne as	multiplyin	ig by	100

7	5.4 × 0.01 (
	50.4 ÷ 100	(0.504)		
	54 ÷ 100 (0	.54)		
	54 × 0.1 (5.	4)		
	504 ÷ 10 (5	0.4)		
	5.4 × 10 (54	4)		
8	a 0.01	b 0.1	c 65	d 4800
9	0.24 m ²			
10	$a_{x} = 55$	b $y = 20$		

1		90 500	b f	3521 80	c g	0.7 370	d h	2490 1500
	i 5		j	410 000	k	72 900	1	1930000
2	\$4.8	0						
3	4.5 r	n						
4				ltiplied 45 change the				out two 0s on th 0.
5	a 0.1	1	b	0.1	c	10	d	100
	e 0.1	1	f	0.01	g	, 10	h	100
6	a 1		b	32	c	01,1	d	4321
6			-					
7	a 0.0	01	h	0.0001				

8 This is only true if the decimal is smaller than 1. For example, if you divide 3 by the decimal 1.5, the answer is 2 so it gets smaller.

2a trueb falsec true3a 960b 490c 6200d 18000e 17f27g0.0039h 130i 8.04 127 g0.0039h 130i 8.04 13 1.6831 0.004753 3 $s.f.$ 613752 1.6831 0.004753 3 $s.f.$ 614000 1.68 0.004755 2 $s.f.$ 610000 1.7 0.0048 1 $s.f.$ 600000 2 0.005 5a 0.00466 b 0.02 c6a i, ii, vbbbbbii 800 000iv 0.04 vi7a 80000 b 83000 c8a 0.004 b 0.0036 c9,10Students' own answers11a 8135000 b11a 8135000 b 8130000 c 8100000 12aThe theatre would sell 960 tickets, which is more than th have seats.bIt would say 15 tonnes which is too heavy for the bridge.13a 5499 b 4500	1 a f		0000	c 400 h 0.003	d 50	e 5
f27g 0.0039 h130i8.04Number6137521.6831 0.004753 3 s.f.6140001.68 0.004753 2 s.f.6100001.7 0.0048 1 s.f.6000002 0.0055 5 a 0.00466 b 0.02 c 0.00022 d6 ai, i, vbiii 800 000 iv 0.04 vi 9007 a 80000 b 83000 c 82700 d 82740 8 a 0.004 b 0.0036 c 0.00357 d 0.003565 9.10Students' own answers11 a 8135000 b 8130000 c 8100000 d 800000 12 aThe theatre would sell 960 tickets, which is more than th have seats.bIt would say 15 tonnes which is too heavy for the bridge.13 a5499b 4500		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Number 613752 1.6831 0.004753 3 s.f. 614000 1.68 0.00475 2 s.f. 610000 1.7 0.0048 1 s.f. 600000 2 0.005 5 a 0.00466 b 0.02 c 0.00022 d 0.40 6 a i, ii, v b iii 800 000 iv 0.04 vi 900 7 a 80000 b 83000 c 82700 d 82740 $8a$ 0.003565 $9,10$ Students' own answers 11 a 8135000 b 8130000 c 8100000 d 8000000 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 4500						00 e 17
2 s.f. 610 000 1.7 0.0048 1 s.f. 600 000 2 0.005 5 a 0.004 66 b 0.02 c 0.000 22 d 0.40 6 a i, ii, v b iii 800 000 iv 0.04 vi 900 7 a 80 000 b 83 000 c 82 700 d 82 740 8 a 0.004 b 0.0036 c 0.003 57 d 0.003 565 9,10 Students' own answers 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4 500 500	4	Number	613	3752	1.6831	0.004753
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 5 a 0.004 66 b 0.02 c 0.000 22 d 0.40 6 a i, ii, v b iii 800 000 iv 0.04 vi 900 7 a 80 000 b 83 000 c 82 700 d 82 740 8 a 0.004 b 0.0036 c 0.003 57 d 0.003 565 9,10 Students' own answers 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 		2 s.f.	610	0000	1.7	0.0048
6 a i, ii, v b iii 800 000 iv 0.04 vi 900 7 a 80 000 b 83 000 c 82 700 d 82 740 8 a 0.004 b 0.0036 c 0.003 57 d 0.003 565 9,10 Students' own answers 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500		1 s.f.	600	0000.	2	0.005
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 b iii 800 000 iv 0.04 vi 900 7 a 80 000 b 83 000 c 82 700 d 82 740 8 a 0.004 b 0.0036 c 0.003 57 d 0.003 565 9,10 Students' own answers 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 	5 a	0.00466	0.02	c 0	00022 d	0.40
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 a Students' own answers a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. a 5499 b 4500 	5 a	i, ii, v				0.40
 11 a 8 135 000 b 8 130 000 c 8 100 000 d 8 000 000 12 a The theatre would sell 960 tickets, which is more than the have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 	5 a b	i, ii, v iii 800 000) iv 0.04	vi	900	
 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 	5 a b 7 a	i, ii, v iii 800 000 80 000	iv 0.04 b 83 0	vi 000 c	900 82 700	
 12 a The theatre would sell 960 tickets, which is more than th have seats. b It would say 15 tonnes which is too heavy for the bridge. 13 a 5499 b 4500 	6 a b 7 a 8 a	i, ii, v iii 800 000 80 000 0.004	iv 0.04 b 83 0 b 0.00	vi 000 c 036 c	900 82 700	d 82 740
13 a 5499 b 4500	5 a b 7 a 8 a 9,10	i, ii, v iii 800 000 80 000 0.004 Students'	iv 0.04 b 83 0 b 0.00 own ansy	vi 000 c 036 c vers	900 82 700 0.003 57	d 82 740 d 0.003 565
13 a 5499 b 4500	6 a b 7 a 8 a 9,10 11 a	i, ii, v iii 800 000 80 000 0.004 Students' 8 135 000 The theatre) iv 0.04 b 83 0 b 0.00 own answ b 8 13	vi 000 c 036 c vers 00000 c	900 82 700 0.003 57 8 100 000	 d 82 740 d 0.003 565 d 8 000 000
	6 a b 7 a 8 a 9,10 11 a 12 a	i, ii, v iii 800 000 80 000 0.004 Students' 8 135 000 The theatre have seats.	 iv 0.04 b 83 0 b 0.00 own answ b 8 13 would set 	4 vi 100 c 136	900 82 700 0.003 57 8 100 000 kets, which is	d 82 740 d 0.003 565 d 8 000 000 s more than the
15 a 0.04 b 0.0362	6 a b 7 a 8 a 9,10 11 a 12 a b 13 a 14 a	i, ii, v iii 800 000 80 000 0.004 Students' 8 135 000 The theatre have seats. I twould sa 5499	 iv 0.04 b 83 0 b 0.00 own answ b 813 e would set wou	4 vi 000 c 036 c vers 00000 c ell 960 tick nes which i 0 c	900 82 700 0.003 57 8 100 000 kets, which is	d 82 740 d 0.003 565 d 8 000 000 s more than the



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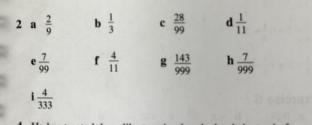




1 de la como	Exercise 6E	And there is not a set of the set of the set of the
	l a 0.15 b 0.36	c 0.428571 d 0.1875
		9848 c 4.35 (to 2 d.p.)
	3 137.5736°	c 4.35 (to 2 d.p.)
	4 a 12.7764 cm ² b	$1.84 \mathrm{cm}$ (to $2.4 \mathrm{c}$)
	5 a \$92.19 b	\$30.29 c \$5.40
	6 a 0.575928 m ² b	¢50.29 c \$5.40
		\$0.75
E	xercise 6F	Stadonts' own dizwings
1	a 0.4 b 0.6	c 0.8 d 0.25
	e 0.75 f 0.375	g 0.625 h 0.875
	i 0.0625 j 0.3125	S laterary their conclusion and can
1 2	a 0.3333 = 0.3	
	b 0.6666 = 0.6	
4	d 0.142857 = 0.142857 a the 3s carry on forever b $\frac{1}{4} = 0.25$ $\frac{1}{5} = 0.2$ $\frac{1}{6}$: $\frac{1}{7} = 0.142857$ $\frac{1}{8} =$ $\frac{1}{10} = 0.1$ c i $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{1}{8}, \frac{1}{10}$	= 0.1666 0.125 $\frac{1}{9} = 0.1111$ ii $\frac{1}{3}, \frac{1}{6}, \frac{1}{7}, \frac{1}{9}$
5	a 0.833 recurring	b 0.285 recurring
-	c 0.571 recurring	d 0.222 recurring
and the second second	e 0.555 recurring	f 0.1818 recurring h 0.0833 recurring
-	g 0.0714285 recurring	n 0.0655 recurring
	yes	a 0.15 d 0.25
- 1	a 0.0625 b 0.6875	c 0.15 d 0.35
0	e 0.55 1 0.015	g 0.035 h 0.004 iii 2.333 iv 12.1875
8		
	b i $2\frac{4}{5}$ ii $7\frac{5}{8}$	iii $2\frac{4}{9}$ iv $15\frac{7}{10}$
9	a $\frac{1}{9}$ b $\frac{5}{9}$	c <u>2</u>

Exercise 6G

Decimal	Fraction (cancelled to simplest form)
0.6	<u>3</u> 5
0.75	3/4
0.Ġ (or 0.666)	<u>2</u> 3
0.7	<u>7</u> 10
0.25	<u>1</u>
0.03	- <u>3</u> 100
0.27	<u>27</u> 100
0.4	2 5
0.8	<u>4</u> 5



4 He has treated them like terminating decimals instead of recurring decimals so there is a rounding error.

5	a	$\frac{1}{45}$	b	1 18	c	$\frac{4}{45}$	d	<u>29</u> 990	e	<u>7</u> 900	
6	a	$\frac{1}{550}$	b	$\frac{203}{9990}$	c	<u>7</u> 9000					
Ex	er	cise 6H									
1	a	$\frac{3}{10}$	b	$\frac{2}{5}$	c	$\frac{2}{5}$					
2	a	$\frac{3}{7}$	b	$\frac{3}{20}$	c	$\frac{1}{8}$					
4	0.	$61, \frac{5}{8}, \frac{13}{20}$									
5	a	false	b	true	c	false	·				
7	a	>	b	<	c	=					
8	a	smaller	b	larger							
9	a	<	b	<	c	>		d <		e >	
10	a	true	b	false	c	false		d true			
11	St	udents' own	n ar	nswers, e.g.							
	a	$4\frac{71}{90}$	b	$1\frac{21}{110}$	c	<u>17</u> 70					

Exercise				
1 a $1\frac{1}{2}$	b $2\frac{1}{3}$	d $1\frac{1}{5}$	e $1\frac{2}{5}$	
$f 2\frac{1}{8}$	g $2\frac{1}{6}$			
2 a Somna	th is correct. Wac	ar has not c	orrectly dealt w	with the $\frac{-3}{5}$
b Waqar worked	should have subt l.	racted $\frac{3}{5}$ from	m 2 then it wou	ild have
3 a $2\frac{1}{4}$	b $2\frac{11}{35}$	c $4\frac{5}{6}$	d $2\frac{11}{12}$	12
e $3\frac{9}{20}$	f $4\frac{9}{20}$	g $8\frac{23}{40}$		
4 $1\frac{7}{12}$ kg	. p			
5 $2\frac{3}{8}$ m				
6 $1\frac{5}{8}l$				int ist a
$71\frac{5}{6},9\frac{1}{3}$				101 1
8 a $4\frac{2}{15}$	b $4\frac{7}{10}$			1. 36 2
9 a 4	b 3	c 9	d 18	in the o

Exercise 6K	
1 a $2\frac{1}{6}$ b $2\frac{1}{2}$ c $1\frac{1}{3}$	d $2\frac{2}{11}$
e $4\frac{1}{5}$ f $4\frac{1}{6}$ g $5\frac{3}{5}$	h $11\frac{2}{3}$
i $57\frac{3}{5}$ j $22\frac{10}{17}$	
2 a 10 b $15\frac{1}{6}$ c $16\frac{1}{4}$	d 20
e $73\frac{1}{3}$ f $82\frac{1}{4}$ g $6\frac{3}{7}$	
i $21\frac{1}{3}$ j $14\frac{1}{4}$ k $-7\frac{4}{5}$	
3 4 5 3 $12\frac{1}{4}$ hours	5
4 $10\frac{1}{2}$	
$5 8\frac{4}{5}$	
5 6 $31\frac{1}{4}m^2$	
8 $^{-3} \times 2\frac{1}{5} = {}^{-6}\frac{3}{5}$	
$5 5 5 3 \times 1\frac{5}{12} = 4\frac{1}{4} 4 \times 1\frac{1}{3} = 5\frac{1}{3}$	
$2 \times 3 \frac{1}{8} = 6 \frac{1}{4} \qquad \left(4 \times 1 \frac{1}{4}\right)^2 = 25$	
9 a $21\frac{3}{7}$ b $10\frac{3}{4}$	
10 4	
11 a 240 b 180	0142857= 0.142
Exercise 6M	and the second
1 a $4 \div \frac{2}{3} = 4 \times \frac{3}{2} = \frac{4 \times 3}{2} = \frac{12}{2} = 6$	and and a second second
b $10 + \frac{2}{5} = 10 \times \frac{5}{2} = \frac{50}{2} = 25$	a and a
c $10 + \frac{4}{5} = 10 \times \frac{5}{4} = \frac{50}{4} = 12\frac{1}{2}$	the beach
10.000 h 0.000 t	2.1. 11
2 a 45 b $5\frac{1}{3}$ c 9	d $9\frac{3}{5}$
e 12 f 9 g $-7\frac{1}{2}$	h $-7\frac{1}{5}$
i -14 3 20 bottles	
4 18 people	
5 $2\frac{1}{2}$ weeks	
6 $2\frac{2}{3}$ m	
7 3 ³ / ₄	
	the second s

'	3	4										
8			Τ						T			T
9	a	$4\frac{4}{5}$	b	$2\frac{2}{3}$	c	$4\frac{10}{11}$	d 2	18 19	e	2 <u>12</u> 19		
	f	$3\frac{7}{27}$	g	$-2\frac{4}{13}$	h	$-3\frac{1}{2}$	i -	$2\frac{1}{7}$				

Investigation

One pattern in this investigation is in the fractions where this works; notice each integer increases by 1 each time as does the denominator of the fraction.

denominator of the fr	action.	ach time as does the
$4\frac{1}{2} \div 3 = 4\frac{1}{2} - 3$		
$5\frac{1}{3} \div 4 = 5\frac{1}{3} - 4$		
$6\frac{1}{4} + 5 = 6\frac{1}{4} - 5$		
$7\frac{1}{5} + 6 = 7\frac{1}{5} - 6$		
Exercise 6		1 200
1 a 0.29 b 0 e 32 f 9	0.8 c 970 0 g 4	d 300 h 3.5
2 a 0.01 b 2		d 4.08
C 0.01 X /		
3 a 900	b 9000	c 40.000
d 40000	e 0.8	f 0.07
g 0.007	h 9	i 0.0004
4 a 540 000	b 42000	c 0.037
d 0.000 22 g 0.0048	e 12 h 1400	f 1.1 i 0.31
5 a 18.4		c 10500
d 0.0301	e 15.1	f 113
g 21 500		i 21.0
6 b 0.005 71 d 509 000		
f 0.0101		
7 a 0.1 b (0.01 c 0.2	d 0.07
8 a 0.375	b 0.285	= 0.285714
c $0.222 = 0.2$		= 083
e $0.461 = 0.46$		= 1.6
9 i $\frac{1}{8}, \frac{1}{5}, 0.2, 0.25,$		$0.75, \frac{7}{9}, 0.8$
10 a $\frac{2}{3}$ b 1	$\frac{1}{2}$ c $2\frac{3}{4}$	d $1\frac{1}{2}$
$e \frac{7}{9}$ f 3	$\frac{1}{12}$	
11 a $2\frac{3}{20}$ b $\frac{3}{4}$	c $2\frac{7}{12}$ d	$\frac{13}{20}$ e $2\frac{23}{56}$
12 $5\frac{7}{8}$ km		
13 1 ¹¹ / ₁₂ kg		
14 a $4\frac{4}{5}$ b $-3\frac{1}{3}$	c $-13\frac{2}{7}$ d	$13\frac{1}{5}$
$e^{-7\frac{2}{5}}$ f 97 $\frac{1}{7}$	1	a Stats-An
15 a 20 b -	8 c 18	d 101
e $16\frac{1}{2}$ f -	14	$\frac{10}{2}$
Summary Check out		
	.7 c 300	d 5.16
2 a i 8710	ii 0.00486	1= 4-21
b i 48000	ii 0.020	
c i 60	ii 0.0008	
$3 \frac{3}{4}, \frac{7}{9}, \frac{17}{20}$		
4 a i $1\frac{22}{63}$	ii $1\frac{7}{8}$	b $\frac{5}{6}$ litre
4 a 1 1 1 4 63	II 1-8	0 6 nue

b $-15\frac{5}{6}$

 $ii -10\frac{1}{2}$

c $22\frac{2}{3}$

b 40

5 a $10\frac{2}{5}$

6 a i 16

Answer Key Chapter 6

Homework book

6	A-	6C						
1	a	530	b	56	c	600	d	250
	e	0.7	f	0.5	g	220	h	4400
	i	5400	j	9	k	303	1	590
2	a	0.064	b	0.8	c	0.0058	d	0.004
	e	0.024	f	0.00087	g	0.00072	h	0.000003
	i	0.0008	j	0.0027	k	0.005	1	0.0104
3	a	0.5	b	0.06	c	0.052	d	3.45
4	a	5.4	b	0.562	c	0.6	d	4.5
	e	0.8	f	0.52	g	0.05	h	0.003
	i	0.15	j	4.56	k	0.002	1	0.76
5	a	1.4	b	1.2	c	5.6	d	3.5
	e	1.8	f	8.8	g	0.28	h	0.36
	i	0.2	j	0.72	k	0.27	1	0.28
6	a	620	b	80	c	63	d	150
	e	2.4	f	0.3	g	800	h	700
	i	1200	j	60	k	350	1	2200

a	a 60 b		300 c		5 d		10 000	
e	0.0002	f	70					
2 a	980	b	600	с	5400	d	37	
e	0.0020	f	6.0					
3	Number		4572	13	5.86	512	0.004 851	
	3 s.f.		457 000		5.86		0.00485	
	2.s.f.		460 000		5.9		0.0049	
- 15	1 s.f.		5000	00	6		0.005	

7 2300 cm³ (using the same accuracy as the least accurate number in the question, 2 s.f.)

6	F-4	6H						
1		0.5 0.56	b	0.375	c	0.3125	d	0.45
2	a	$0.\dot{8}, \frac{8}{9}$	b	$0.\dot{2}, \frac{2}{9}$	c	$0.\dot{2}\dot{5}, \ \frac{25}{99}$	d	$0.4i, \frac{41}{99}$
	e	0.265,	<u>265</u> 999		f	$0.\dot{0}\dot{3}, \ \frac{1}{33}$		
	e	0.27	f	0.83 0.63 0.307692	g	0.2 0.714285	d h	0.7 0.2142857
4	a	2.3	b	5.16	c	10.5		
	d	8.18	e	3.858142				
5	a	$\frac{3}{8}$	b	$\frac{4}{9}$	c	<u>5</u> 6	d	$\frac{2}{3}$
	e	$\frac{7}{9}$	f	$\frac{3}{4}$	g	<u>5</u> 11	h	$\frac{3}{5}$
6	a	$\frac{2}{3}$	b	<u>8</u> 9	c	<u>5</u> 11	d	<u>9</u> 14
7	a	true	b	false	c	true	d	false

61			a 5700 m 0 23
1 a $1\frac{1}{3}$	b $2\frac{1}{12}$	c $3\frac{5}{7}$	d $3\frac{7}{12}$
2 $11\frac{3}{5}$ litres			
3 $5\frac{11}{20}$ km			
4 a $6\frac{1}{60}$	b $7\frac{17}{30}$	c $5\frac{11}{20}$	5 4+ 5<11
5 a $7\frac{8}{15}$	b $1\frac{1}{2}$		1. Accurate consultation
6J-6M			3 Accurate construction
1 a 1	b $1\frac{1}{2}$	c $4\frac{2}{3}$	d $2\frac{2}{5}$
$e^{-1\frac{1}{3}}$	f $1\frac{1}{7}$	g 2	h $2\frac{2}{9}$
i $1\frac{3}{5}$	j $2\frac{1}{7}$	k $3\frac{3}{4}$	16
m 7	n $3\frac{3}{4}$	o $13\frac{3}{4}$	p $14\frac{2}{3}$
q $9\frac{1}{5}$	r $16\frac{5}{7}$	s $12\frac{2}{3}$	t $36\frac{10}{11}$
2 a 10kg	b 15 m	c \$24	d 140 ml

