Answers to Scholastic National Curriculum Maths Practice Book for Year 5

The answers are given below. They are referenced by page number and where applicable, question number.

The answers usually only include the information the children are expected to give.

There may be some places where the answers vary or multiple answers are acceptable, these are marked as such.

Page number	Question number	Answers
6	1a	822, 832, 842, 852, 862, 872, 882, 892
	1b	16,167, 16,177, 16,187, 16,197, 16,207, 16,217
	2a	5856, 5956, 6056, 6156, 6256, 6356, 6456, 6556
	2b	45,509, 45,609, 45,709, 45,809, 45,909, 46,009
	3a	36,454, 36,354, 36,254, 36,154, 36,054, 35,954
	3b	69,128, 69,028, 68,928, 68,828, 68,728, 68,628
	4a	19,461, 20,461, 21,461, 22,461, 23,461, 24,461
	5a	82,753, 81,753, 80,753, 79,753, 78,753, 77,753
7	1	3
	2	–3
	3a	1, 4, 7, 10.
	3b	–3, 1, 5, 9
	3c	–9, –4, 1, 6
	4a	0, –5, –10, –15
	4b	4, 1, –2, –5
	4c	–6, –13, –20, –27
8	1	9°
	2	8°
	3	3°C
	4	–5°C
	5	–1°C
	6	17°C

Page number	Question number	Answers
9	1a	43
	1b	278
	1c	5,961
	1d	21,683
	1e	457,932
	1f	7,019
	1g	10,002
	1h	88,008
	2a	One hundred and five
	2b	One hundred and fifty
	2c	Eight thousand and six
	2d	Eight thousand and sixty
	2e	Eight thousand, six hundred
	2f	Six thousand and eight
10	1b	4304 = Four thousand, three hundred and four
	1c	1072 = One thousand and seventy-two
	1d	61,591 = Sixty-one thousand, five hundred and ninety-one
	1e	24,150 = Twenty-four thousand, one hundred and fifty
	2b	457cm; 7cm
	2c	766mm; 700mm
	2d	730cm; 700cm
	2e	6.73m; 0.7m or 70cm
	2f	7145m; 7000m
	2g	7995g; 7000g
	2h	£4754; £700
	3a	38
	3b	240
	3c	Five thousand, two hundred
11	1a	7
	1b	153
	1c	19
	1d	109
	1e	35
	1f	551
	1g	38
	1h	710
	1i	70
	1j	320
	1k	1900
	1l	1655

Page number	Question number	Answers
12	1	MC = 1100 MM = 2000 MCCC = 1300 MMXIV = 2014 MDCL = 1650 MMX = 2010
	2	Answers will vary. For example, 2004 = MMIV, 2005 = MMV, 2006 = MMVI
13	1a	28, 82
	1b	67, 76
	1c	459, 495, 549, 594, 945, 954
	1d	168, 186, 618, 681, 816, 861
	1e	3578, 3587, 3758, 3785, 3857, 3875, 5378, 5387, 5738, 5783, 5837, 5873, 7358, 7385, 7538, 7583, 7835, 7853, 8357, 8375, 8537, 8573, 8735, 8753
	1f	3047, 3074, 3407, 3470, 3704, 3740, 4037, 4073, 4307, 4370, 4703, 4730, 7034, 7043, 7304, 7340, 7403, 7430
14	1	Nearest 10: 59, 60, 61, 64 81, 78, 77, 76 Nearest 100: 897, 913, 933, 935 385, 401, 399, 403 206, 189, 177, 179 188, 186, 194, 187 566, 581, 612, 601 1001, 999, 989, 1004

Page 15, Question 1:

Programme	Viewers	Rounded to the nearest 1000	Rounded to the nearest 10,000	Rounded to the nearest 100,000
Sing to Win	374,294	374,000	370,000	400,000
Emergency Ward	472,672	473,000	470,000	500,000
Football Live	835,333	835,000	840,000	800,000
The Constabulary	472,567	473,000	470,000	500,000
All Aboard!	628,342	628,000	630,000	600,000
Daily News	934,681	935,000	930,000	900,000
Cooking Today	462,489	462,000	460,000	500,000
School Quiz Challenge	814,557	815,000	810,000	800,000
Star Quality	992,103	992,000	990,000	1,000,000

Page number	Question number	Answers
15	2a	651,000
	2b	1,465,000
	2c	1,770,000
	2d	1,443,000

Page number	Question number	Answers
16	1	−2, −1, 0, 4, 5, 6, 6, 8, 10, 10, 11, 11, 13, 13, 15, 18, 20, 20, 21, 22, 23, 24, 25, 34
	2	Answers will vary.
17	1	Edinburgh, Belfast, Birmingham, London, Cardiff, Plymouth
	2	22°C, 13°C, 10°C, −4°C, −10°C, −36°C
	3	−2°C
	4	21°C
18	1a	26
	1b	14
	1c	2
	1d	32
	2a	44
	2b	27
	2c	78
	2d	83
	3a	£6.50
	3b	£15.20
	3c	14.3m
	3d	11.5m
	3e	1250p
	3f	1310p

4a

46	92	184
17	34	68
37	74	148
24	48	96
12	24	48

4b

48	96	192
27	54	108
16	32	64
42	84	168
23	46	92
35	70	140

4c

39	78	156
21	42	84
49	98	196
15	30	60
28	56	112
19	38	76

Page number	Question number	Answers
19	1a	160
	1b	540
	1c	790
	1d	410
	1e	760
	1f	280
	1g	670
	1h	900
	2a	70g + 65g + 55g = 190g
	2b	36 + 24 + 17 = 77 children
	3	Answers will vary.
20	1a	710
	1b	1170
	1c	1820
	1d	830
	1e	580
	1f	320
	1g	860
	1h	600
	1i	1590
	1j	1895
	1k	1080
	1l	480
	2a	960 (double 500 – 30 – 10)
	2b	1230 (double 600 + 10 + 20)
21	1a	550 + 40 + 8 + 6 = 604
	1b	750 + 30 + 7 + 5 = 792
	2a	642 + 8 + 21 = 650 + 21 = 671
	2b	913
		285
		431

Page 21, Question 3:

Grid 1:

	434	+	242	
=	**400**	+	**200**	
+	**30**	+	**40**	
+	**4**	+	**2**	
=	**600**	+	**70**	+ **6**
=	**676**			

Grid 2:

	234	+	**725**	
=	200	+	**700**	
+	**30**	+	20	
+	4	+	**5**	
=	**900**	+	**50**	+ **9**
=	959			

Page number	Question number	Answers
22	1a	62 + 60 – 4 = 118
	1b	94 + 90 – 3 = 181
	1c	83 + 80 – 2 = 161
	1d	82 + 100 – 1 = 181
	2b	385 – 70 + 1 = 316
	2c	537 + 40 + 1 = 578
	2d	542 – 20 – 1 = 521
	2e	246 + 40 – 1 = 285
	3	454 – 80 = 374 + 1 = 375g
23	1	£620
	2	440km
	3	2887 miles
	4	1626kg
	5	380g
	6	1582 litres
	7	1900m
	8	2000km
24	a	10,919
	b	3015
	c	1258
	d	185
	e	4894
	f	5888
	g	11,467
25	1a	118,406
	1b	10,337
	1c	78,654
	1d	116,840
	1e	97,809
	1f	123,975
	2a	52350 + 40031 92381
	2b	63174 + 80921 144095

Page number	Question number	Answers
26	1a	238
	1b	413
	1c	1114
	1d	2147
	1e	469
	1f	759
	2a	1006
	2b	152
27	1a	1933 + 364 2297
	1b	1382 – 242 1140
	1c	1844 + 2936 4780
	1d	2936 – 1749 1187
	1e	£38.96 + £65.05 £104.01
	1f	£390.84 – £127.58 £263.26
	1g	£100.38
	1h	875 cards
28	1a	£49.10
	1b	1023
	1c	£26.69
	1d	15.92kg
	1e	6.36 or 9.48 – Yes the 7.92 could be the larger or smaller of the numbers in the number sentence.
	1f	No, the correct change should be £6.48 from £40.
29	1a	47,493
	1b	£49.09
	1c	621
	1d	£34.53
	1e	25.1 or 25.10
	1f	23.2 or 23.20
	1g	4.09 or 9.53. Yes, the 6.81 could be the larger or the smaller of the numbers in the number sentence.
	1h	£81.35

Page number	Question number	Answers
30	1a	24.3 + 12.62 36.92
	1b	899 − 67.4 831.6
	1c	9.00 − 7.20 1.80
31	1	£1.45 £1.78 + £2.43 £5.66 Mike's answer is incorrect.
	2	£2.99 £4.28 + £0.68 £7.95 Mike's answer is incorrect.
	3	£2.37 £8.25 + £1.12 £11.74 Mike's answer is correct.
	4	£7.70 £7.07 + £0.70 £15.47 Mike's answer is incorrect.
	5	£0.98 £3.69 £6.16 + £0.46 £11.29 Mike's answer in incorrect.
	6	£16.72 £56.88 + £31.99 £105.59 Mike's answer in incorrect.
		1 question answered correctly.

Page number	Question number	Answers
32	1a	2000 + 3000 = 5000
		2005 + 3290 = 5295
		5295 – 2005 = 3290
	1b	5000 – 1400 = 3600
		5002 – 1386 = 3616
		3616 + 1386 = 5002
	1c	7200 – 2500 = 4700
		7211 – 2595 = 4616
		4616 + 2595 = 7211
	1d	3000 + 2000 = 5000
		2734 + 1992 = 4726
		4726 – 1992 = 2734
	1e	9000 – 9000 = 0
		9018 – 8933 = 85
		8933 + 85 = 9018
33	1a	510, 507
	1b	£240, £241.83
	1c	550, 522
	1d	30m, 30.73m
	2a	**4**57 + 2**03** 660
	2b	81**6**7 – 13**5**4 6813
	2c	£**8**95**0** – £31**26** £5824
34	1a	6 × 4 = 24, 4 × 6 = 24, 24 ÷ 6 = 4, 24 ÷ 4 = 6
	1b	3 × 6 = 18, 6 × 3 = 18, 18 ÷ 3 = 6, 18 ÷ 6 = 3
	1c	5 × 8 = 40, 8 × 5 = 40, 40 ÷ 5 = 8, 40 ÷ 8 = 5
	1d	7 × 8 = 56, 8 × 7 = 56, 56 ÷ 7 = 8, 56 ÷ 8 = 7
	2a	Check children's answers.
	2b	Check children's answers.
	3	27, 32, 47

Page number	Question number	Answers
35		81: 9 × 9, 3 × 27, 1 × 81
		30: 1 × 30, 2 × 15, 3 × 10, 5 × 6
		48: 1 × 48, 2 × 24, 3 × 16, 4 × 12, 8 × 6
		72: 1 × 72, 2 × 36, 3 × 24, 4 × 18, 6 × 12, 8 × 9
		32: 1 × 32, 2 × 16, 4 × 8
		49: 1 × 49, 7 × 7
		42: 1 × 42, 2 × 21, 3 × 14, 6 × 7
		21: 1 × 21, 3 × 7
		35: 1 × 35, 5 × 7
		18: 1 × 18, 2 × 9, 3 × 6
		36: 1 × 36, 2 × 18, 3 × 12, 4 × 9, 6 × 6
		56: 1 × 56, 2 × 28, 4 × 14, 7 × 8
		64: 1 × 64, 2 × 32, 4 × 16, 8 × 8
		63: 1 × 63, 3 × 21, 7 × 9
		27: 1 × 27, 3 × 9
		40: 1 × 40, 2 × 20, 4 × 10, 5 × 8
		90: 1 × 90, 2 × 45, 3 × 30, 5 × 18, 6 × 15, 9 × 10
		28: 1 × 28, 2 × 14, 4 × 7
		16: 1 × 16, 2 × 8, 4 × 4
36	1	Red numbers: 66, 78
		Blue numbers: 14, 21, 28, 35, 42, 49, 77
		Yellow numbers: 16, 32, 40, 64, 128
		Purple numbers: 27, 45, 81, 99
		Orange numbers: 10, 20, 40, 50
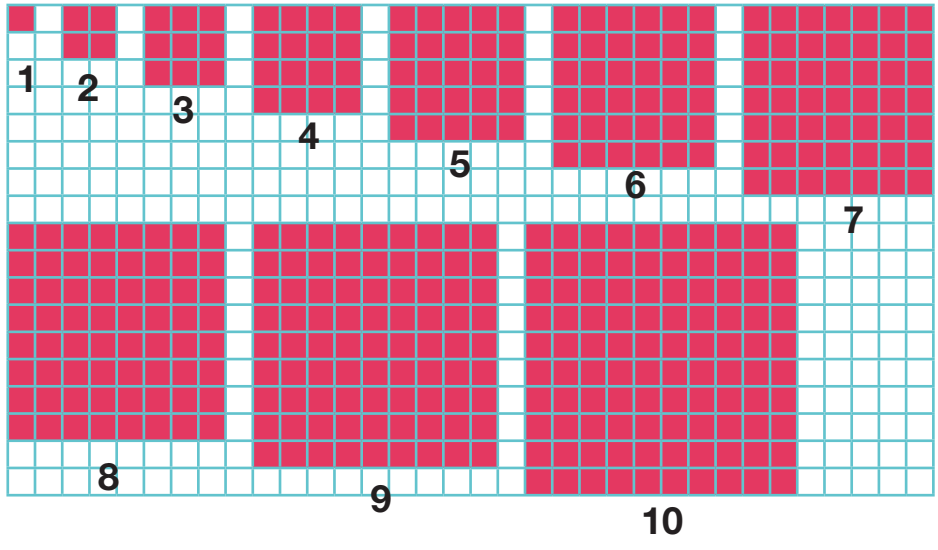
Page number	Question number	Answers
37	1	

10×	10×	10×
1 × 10 = 10	1 × 3 = **3**	1 × 4 = **4**
2 × 10 = **20**	2 × 3 = **6**	2 × 4 = **8**
3 × 10 = **30**	3 × 3 = **9**	3 × 4 = **12**
4 × 10 = **40**	4 × 3 = **12**	4 × 4 = **16**
5 × 10 = **50**	5 × 3 = **15**	5 × 4 = **20**
6 × 10 = **60**	6 × 3 = **18**	6 × 4 = **24**
7 × 10 = **70**	7 × 3 = **21**	7 × 4 = **28**
8 × 10 = **80**	8 × 3 = **24**	8 × 4 = **32**
9 × 10 = **90**	9 × 3 = **27**	9 × 4 = **36**
10 × 10 = **100**	10 × 3 = **30**	10 × 4 = **40**
11 × 10 = **110**	11 × 3 = **33**	11 × 4 = **44**
12 × 10 = **120**	12 × 3 = **36**	12 × 4 = **48**

Page 37, Question 2

13× = 10× + 3×	14× = 10× + 4×
1 × 13 = 10 + 3 = **13**	1 × 14 = 10 + 4 = **14**
2 × 13 = 20 + 6 = **26**	2 × 14 = 20 + 8 = **28**
3 × 13 = 30 + 9 = **39**	3 × 14 = 30 + 12 = **42**
4 × 13 = 40 + 12 = **52**	4 × 14 = 40 + 16 = **56**
5 × 13 = 50 + 15 = **65**	5 × 14 = 50 + 20 = **70**
6 × 13 = 60 + 18 = **78**	6 × 14 = 60 + 24 = **84**
7 × 13 = 70 + 21 = **91**	7 × 14 = 70 + 28 = **98**
8 × 13 = 80 + 24 = **104**	8 × 14 = 80 + 32 = **112**
9 × 13 = 90 + 27 = **117**	9 × 14 = 90 + 36 = **126**
10 × 13 = 100 + 30 = **130**	10 × 14 = 100 + 40 = **140**
11 × 13 = 110 + 33 = **143**	11 × 14 = 110 + 44 = **154**
12 × 13 = 120 + 36 = **156**	12 × 14 = 120 + 48 = **168**

Page number	Question number	Answers
38	1b	225 is a multiple of 3, 5, 9
	1c	390 is a multiple of 2, 3, 5, 6
	1d	960 is a multiple of 2, 3, 4, 5, 6
	2	Answers will vary.
	3	360
39	1a	1 × 24, 2 × 12, 3 × 8, 4 × 6
	1b	1 × 28, 2 × 14, 4 × 7
	1c	1 × 36, 2 × 18, 3 × 12, 4 × 9, 6 × 6
	1d	1 × 40, 2 × 20, 4 × 10, 5 × 8
	1e	1 × 64, 2 × 32, 4 × 16, 8 × 8
	1f	1 × 85, 5 × 17
40	1	There are 6 factors 1, 2, 4, 8, 16, 32
	2a	60
	2b	Because there is no other number under 100 that can be divided by all those numbers and give a whole number answer.

Page number	Question number	Answers
41	a	216
	b	340
	c	360
	d	600
42	1	Check children's answers.
	2	The prime numbers less than 100 are: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97
43	1	

24

③   8

4   ②

②   ②

24 = 3 × 2 × 2 × 2

56

⑦   8

4   ②

②   ②

56 = 7 × 2 × 2 × 2

100

②   50

25   ②

⑤   ⑤

100 = 2 × 5 × 5 × 2

81

9   9

③ ③ ③ ③

81 = 3 × 3 × 3 × 3

2

210

21   10

⑦ ③ ⑤ ②

210 = 7 × 3 × 5 × 2

It is made up of the first four prime numbers.

Page number	Question number	Answers
44	1	

40	80	120	**160**	**200**	**240**	**280**	**320**	360	**400**
80	**160**	240	**320**	**400**	480	560	**640**	**720**	800
30	**60**	**90**	**120**	150	180	**210**	**240**	**270**	**300**
60	**120**	**180**	**240**	**300**	**360**	**420**	480	**540**	600
50	**100**	150	200	**250**	**300**	**350**	**400**	450	**500**
100	200	**300**	**400**	**500**	**600**	700	800	**900**	**1000**

Page number	Question number	Answers
	2a	100
	2b	60
	2c	200
	2d	40
	2e	80
	3a	32, 8, 4, 2, 1
	3b	96, 48, 24, 12, 6
	3c	160, 80, 40, 20, 10
	3d	5000, 2500, 1250
45	1a	180
	1b	200
	1c	270
	1d	120
	1e	315
	1f	105
	1g	225
	1h	385
	2a	180
	2b	400
	2c	280
	2d	336
	3c	3800, 1900
	3d	8900, 4450
	3e	5600, 2800
	3f	4500, 2250

Page number	Question number	Answers
46	1a	(90 × 5) + (6 × 5) = 450 + 30 = 480
	1b	(50 × 8) + (8 × 8) = 400 + 64 = 464
	1c	(80 × 6) + (3 × 6) = 480 + 18 = 498
	1d	(70 × 9) + (4 × 9) = 630 + 36 = 666
	2b	392m
	2c	333km
	2d	395g
	2e	344ml
	2f	£235
	2g	294mm
	2h	366kg
	2i	340p or £3.40
	2j	£2.82 or 282p
	2k	171 miles

47 1a–b

÷		26	53	64	107
a.	5	5	10	12	21
	r	1	3	4	2
b.	7	3	7	9	15
	r	5	4	1	2

47 1c–d

÷		29	40	79	113
c.	3	9	13	26	37
	r	2	1	1	2
d.	9	3	4	8	12
	r	2	4	7	5

Page number	Question number	Answers
	2a	15 groups, 2 children left over
	2b	11 packs, £0.10 or 10p left over
48	1a	544
	1b	1284
	1c	360
	1d	378
	1e	252
	1f	575
49	1a	1908
	1b	1280
	1c	832
	1d	1617
	1e	59,675
	1f	213,092

Page number	Question number	Answers
50	1a	26
	1b	191
	1c	140
	1d	150
	1e	13
	1f	23
51	1a	66 r3
	1b	83 r23
	1c	36 r1
	1d	156 r1
	1e	33 r2
	1f	134 r7

52–53

1

		×10	×100	×1000
a.	£35	**£350**	£3500	**£35,000**
b.	12.5m	**125m**	**1250m**	12,500m
c.	$6\frac{1}{2}$ km	**65km**	**650km**	**6500km**
d.	3.45g	**34.5g**	345g	**3450g**
e.	$6\frac{1}{4}$ kg	**62.5**	**625kg**	6250kg
f.	4.02g	**40.2g**	402g	**4020g**
g.	$6\frac{3}{4}$ m	67.5m	**675m**	**6750m**
h.	£0.05	**£0.50**	**£5.00**	£50.00
i.	0.020g	**0.2g**	2g	**20g**
j.	$2\frac{1}{2}$ km	**25km**	**250km**	2500km

Page number	Question number	Answers
	2	4.2, 38.6, 60.5, 837.4
	3	Abacus shows 0.42, 3.86, 6.05, 83.74
	4b	3420mm, 342cm, 3.42m
	4c	1610mm, 161cm, 1.61m
	4d	610mm, 61cm, 0.61m
	5a	100 times
	5b	10
	5c	25p
	5d	100
	5e	45

Page number	Question number	Answers
54	1	
	2	1, 2, 4, 9, 16, 25, 36, 49, 64, 81, 100
	3	Answers will vary.
55	1	$7^2 = 49$ $18^2 = 324$ $9^2 = 81$ $21^2 = 441$ $10^2 = 100$ $24^2 = 576$ $11^2 = 121$ $25^2 = 625$ $13^2 = 169$ $28^2 = 784$ $15^2 = 225$ $30^2 = 900$ $16^2 = 256$ $40^2 = 1600$
56	1a	$5 \times 5 \times 5 = 125$
	1b	$4 \times 4 \times 4 = 64$
	1c	$1 \times 1 \times 1 = 1$
	1d	$10 \times 10 \times 10 = 1000$
	1e	$7 \times 7 \times 7 = 343$
57	1	$1 = 1^3$ $27 = 3^3$ $64 = 4^3$ $125 = 5^3$ $1000 = 10^3$
	2a	4
	2b	3
	2c	29
58	1	14.21kg
	2	Answers will vary. For example, 5.49, 5.93
	3a	1072
	3b	684
	4	£378.50
	5	No, I should receive £5.51

Page number	Question number	Answers
59	1	£46.50
	2	Be a Roman Soldier: (12 × £1.85) + (12 × £1.50) = £22.20 + £18 = £40.20
		Row the boat as slaves: (10 × £0.90) + (10 × £1.50) = £9.00 + £15 = £24
		Taste of Ancient Rome: (9 × £1.00) + (9 × £1.50) = £9.00 + £13.50 = £22.50
	3	54 + 40.20 + 24 + 22.50 = £140.70
60	1	No, it should be £24.50 + £10.50 + £1.90 + £119.95 + £31.90 + £29.30 + £22.95 = £241.00
	2	£241 ÷ 4 = £60.25
61	1	62
	2	No, they would measure 64.8cm. He is 35.2cm too long.
	3a	48
	3b	80
	4a	54
	4b	189 litres
	5a	206 cars
	5b	£453.20
62	1	1050 nails
	2	2048 biscuits
	3	2550 apples
	4	4608 rations
	5	1092 cannonballs
	6	3365 packets
63	1	22
	2a	78
	2b	370 pairs
	3	42 boxes, 3 left for his tea
64	1	5
	2	5.4m
	3	22 boxes
	4	30.6km
	5	16.1 litres
	6	45
65	1a	131 children
	1b	12 adults
	1c	Football (2 coaches); Athletics (1 coach); Swimming (2 minibuses); Archery (minibus)

Page number	Question number	Answers
66	1	<table><tr><td>**To make 12 small sponge cakes, you will need:**</td><td>**To make 18 small sponge cakes, you will need:**</td></tr><tr><td>**100g** soft margarine **100g** caster sugar **2** eggs **100g** self-raising flour **2** tablespoons cocoa **12** paper cake cases</td><td>**150g** soft margarine **150g** caster sugar **3** eggs **150g** self-raising flour **3** tablespoons cocoa **18** paper cake cases</td></tr></table>
67	1	Answers will vary.
	2	In 2014 18 countries used the euro: Austria, Belgium, Cyprus, Estonia, Finland, France, Germany, Greece, Ireland, Italy, Latvia, Luxembourg, Malta, The Netherlands, Portugal, Slovenia, Slovakia and Spain
	3	Check children's answer against current exchange rate.
68	1a	Answers will vary. For example, $\frac{1}{5}$
	1b	Answers will vary. For example, $\frac{7}{8}$
	1c	Answers will vary. For example, $\frac{5}{6}$
	1d	Answers will vary. For example, $\frac{1}{10}$
	1e	Answers will vary. For example, $\frac{1}{8}$
	1f	Answers will vary. For example, $\frac{1}{10}$
	1g	Answers will vary. For example, $\frac{3}{5}$
	1h	Answers will vary. For example, $\frac{7}{10}$
	1i	Answers will vary. For example, $\frac{1}{8}$
	1j	Answers will vary. For example, $\frac{3}{6}$
	2	$\frac{2}{10}$, $\frac{1}{4}$, $\frac{3}{5}$, $\frac{7}{10}$, $\frac{15}{20}$, $\frac{8}{10}$
	3	$\frac{1}{6}$, $\frac{2}{9}$, $\frac{1}{3}$, $\frac{4}{9}$, $\frac{1}{2}$, $\frac{5}{9}$, $\frac{2}{3}$, $\frac{5}{6}$
69	1a	Answers will vary. For example, $\frac{2}{8}$
	1b	Answers will vary. For example, $\frac{3}{4}$
	1c	Answers will vary. For example, $\frac{5}{8}$
	1d	Answers will vary. For example, $\frac{3}{6}$
	1e	Answers will vary. For example, $\frac{7}{8}$
	1f	Answers will vary. For example, $\frac{4}{5}$
	1g	Answers will vary. For example, $\frac{5}{12}$
	1h	Answers will vary. For example, $\frac{1}{2}$

Page number	Question number	Answers	
70	1	$\frac{1}{10} = 0.1$	$\frac{1}{4} = 0.25$
		$\frac{4}{10} = 0.4$	$\frac{3}{4} = 0.25$
		$\frac{1}{5} = 0.2$	$\frac{5}{10} = 0.5$
		$\frac{2}{10} = 0.2$	$\frac{1}{3} = 0.33$
		$\frac{90}{100} = 0.9$	$\frac{30}{100} = 0.3$
		$\frac{1}{2} = 0.5$	$\frac{70}{100} = 0.7$
71	1	Answers may vary, but ensure coloured shapes match linked fractions.	
72	1b	$\frac{17}{5} = 3\frac{2}{5}$	
	1c	$\frac{9}{2} = 4\frac{1}{2}$	
	1d	$\frac{9}{4} = 2\frac{1}{4}$	
	1e	$\frac{7}{6} = 1\frac{1}{6}$	
73	1a	$2\frac{3}{5}$	
	1b	$3\frac{1}{3}$	
	1c	$1\frac{3}{4}$	
	1d	$1\frac{7}{9}$	
	1e	$1\frac{4}{7}$	
	1f	$1\frac{5}{6}$	
	1g	$25\frac{1}{2}$	
	1h	$4\frac{9}{10}$	
	2a	$\frac{15}{2}$	
	2b	$\frac{9}{4}$	
	2c	$\frac{20}{3}$	
	2d	$\frac{23}{5}$	
	2e	$\frac{53}{8}$	
	2f	$\frac{41}{7}$	

Page number	Question number	Answers
74	1a	<table><tr><td>$\frac{4}{5}$</td><td>$\frac{3}{5}$</td><td>$1\frac{2}{5}$</td></tr><tr><td>$\frac{7}{5}$</td><td>$\frac{3}{5}$</td><td>2</td></tr><tr><td>$2\frac{1}{5}$</td><td>$1\frac{1}{5}$</td><td></td></tr></table>
	1b	<table><tr><td>$\frac{5}{8}$</td><td>$\frac{3}{8}$</td><td>1</td></tr><tr><td>$\frac{7}{8}$</td><td>$\frac{3}{8}$</td><td>$1\frac{1}{4}$</td></tr><tr><td>$1\frac{1}{2}$</td><td>$\frac{6}{8}$</td><td></td></tr></table>
	1c	<table><tr><td>$\frac{3}{4}$</td><td>$\frac{6}{4}$</td><td>$2\frac{1}{4}$</td></tr><tr><td>$\frac{3}{4}$</td><td>$\frac{5}{4}$</td><td>2</td></tr><tr><td>$1\frac{1}{2}$</td><td>$2\frac{3}{4}$</td><td></td></tr></table>
	2a	$\frac{1}{4}$, $\frac{3}{4}$, $1\frac{1}{4}$, $1\frac{3}{4}$, $2\frac{1}{4}$, $2\frac{3}{4}$, $3\frac{1}{4}$, $3\frac{3}{4}$
	2b	$\frac{2}{4}$ or $\frac{1}{2}$
	3a	$\frac{1}{3}$, 1 , $1\frac{2}{3}$, $2\frac{1}{3}$, 3 , $3\frac{2}{3}$
	3b	$\frac{2}{3}$

Page number	Question number	Answers
75	1a	$\frac{2}{4}$ or $\frac{1}{2}$
	1b	$\frac{3}{7}$
	1c	$\frac{4}{10}$ or $\frac{2}{5}$
	1d	1
	2a	<table><tr><td>$\frac{4}{5}$</td><td>$\frac{3}{5}$</td><td>$\frac{1}{5}$</td></tr><tr><td>$\frac{2}{5}$</td><td>$\frac{1}{5}$</td><td>$\frac{1}{5}$</td></tr><tr><td>$\frac{2}{5}$</td><td>$\frac{2}{5}$</td><td></td></tr></table>
	2b	<table><tr><td>$\frac{7}{8}$</td><td>$\frac{3}{8}$</td><td>$\frac{3}{8}$ or $\frac{1}{2}$</td></tr><tr><td>$\frac{4}{8}$</td><td>$\frac{3}{8}$</td><td>$\frac{1}{8}$</td></tr><tr><td>$\frac{3}{8}$</td><td>0</td><td></td></tr></table>
	2c	<table><tr><td>$\frac{9}{4}$</td><td>$\frac{3}{4}$</td><td>$1\frac{1}{2}$</td></tr><tr><td>$\frac{3}{4}$</td><td>$\frac{1}{4}$</td><td>$\frac{2}{4}$ or $\frac{1}{2}$</td></tr><tr><td>$1\frac{1}{2}$</td><td>$\frac{2}{4}$ or $\frac{1}{2}$</td><td></td></tr></table>
	3	1/6
76	1a	$\frac{2}{8} + \frac{3}{8} = \frac{5}{8}$
	1b	$\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$ or $\frac{1}{2}$
	1c	$\frac{3}{6} + \frac{5}{6} = \frac{8}{6}$ or $1\frac{2}{6}$ or $1\frac{1}{3}$
	1d	$\frac{3}{6} - \frac{1}{6} = \frac{2}{6}$ or $\frac{1}{3}$
	1e	$\frac{4}{10} + \frac{1}{10} = \frac{5}{10}$ or $\frac{1}{2}$
	1f	$\frac{9}{10} - \frac{2}{10} = \frac{7}{10}$
	1g	$\frac{3}{9} + \frac{1}{9} = \frac{4}{9}$
	1h	$\frac{7}{8} - \frac{4}{8} = \frac{3}{8}$
	1i	$\frac{4}{9} + \frac{6}{9} = \frac{10}{9}$ or $1\frac{1}{9}$
	1j	$\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$
	1k	$\frac{7}{8} - \frac{6}{8} = \frac{1}{8}$
	1l	$\frac{5}{9} - \frac{3}{9} = \frac{2}{9}$

Page number	Question number	Answers
77	1a	$\star = \frac{3}{4}$, ? = 1
	1b	$\star = \frac{1}{6}$, ? = $\frac{1}{3}$ or $\frac{2}{6}$
	1c	$\star = \frac{1}{2}$, ? = 0
	1d	$\star = \frac{3}{4}$, ? = $\frac{1}{4}$
78	1a	$\frac{4}{5}$
	1b	$\frac{10}{3}$ or $3\frac{1}{3}$
	1c	$\frac{4}{3}$ or $1\frac{1}{3}$
	1d	$\frac{8}{3}$ or $2\frac{2}{3}$
	1e	$\frac{9}{4}$ or $2\frac{1}{4}$
	1f	$\frac{15}{7}$ or $2\frac{1}{7}$
	1g	$\frac{16}{5}$ or $3\frac{1}{5}$
	1h	$\frac{7}{3}$ or $2\frac{1}{3}$
79	1a	6
	1b	$\frac{39}{4}$ or $9\frac{3}{4}$
	1c	$\frac{20}{3}$ or $6\frac{2}{3}$
	1d	$\frac{7}{2}$ or $3\frac{1}{2}$
	1e	$\frac{25}{2}$ or $12\frac{1}{2}$
	1f	$\frac{27}{5}$ or $5\frac{2}{5}$
80	1a	Six units
	1b	Six tenths
	1c	Six thousandths
	1d	Six hundredths
	2a	0.721
	2b	0.72 has a zero in the thousandths column whereas 0.721 has a 1 in the thousandths column making it larger.
81	1a	Any number between 4.001 and 4.999
	1b	Any number between 1.001 and 1.229
	1c	Any number between 2.301 and 2.399
	1d	Any number between 0.001 and 0.199
	1e	Any number between 0.151 and 0.159
	1f	Any number between 9.901 and 9.999
82	1a	35
	1b	766
	1c	1330
	2a	34.2
	2b	357.8
	2c	1546.1
	3a	34.57
	3b	109.11
	3c	3102.34
	4	34.015, 34.09, 34.092, 34.323, 34.40, 34.43

Page number	Question number	Answers

83 | **1**

	Long jump	Standing jump	Bean bag throw	Balance beam walk	30-sec hop
1st	Faarea	Jo	Jo	Faarea	David
2nd	Sam	Sam	Sam	Tom	Jill
3rd	Jill	Faarea	David	Jill	Faarea
4th	Tom	David	Faarea	David	Sam
5th	Jo	Tom	Jill	Sam	Jo

Faarea 5 + 3 + 2 + 5 + 3 = 18

Jo 1 + 5 + 5 + 1 = 12

David 2 + 3 + 2 + 5 = 12

Sam 4 + 4 + 4 + 1 + 2 = 15

Tom 2 + 1 + 4 = 7

Jill 3 + 1 + 3 + 4 = 11

Faarea is the overall winner because she scored 18 points.

84

Question number	Answers
1	18.118, 18.181, 18.811, 18.888, 81.111
2a	6 and 6.262
2b	6, 6.002, 6.202, 6.222, 6.262
3	Answers will vary. For example, 1.245, 12.45, 124.5...

85

Fractions	Decimals
$\frac{1}{2}$	0.5
$\frac{34}{100}$	**0.34**
$\frac{1}{4}$	0.25
$\frac{6}{10}$ or $\frac{3}{5}$	0.6
$\frac{3}{10}$	**0.3**
$\frac{73}{100}$	0.73
$\frac{99}{100}$	**0.99**
$\frac{37}{100}$	**0.37**
$3\frac{89}{100}$	3.89

86 | **1**

1/10, 0.1, 10% 3/10, 0.3, 30%

2/10, 0.2, 20% 1/2, 0.5, 50%

1/4, 0.25, 25% 3/4, 0.75, 75%

2

20% = 20/100 = 0.2 50% = 50/100 = 0.5

25% = 25/100 = 0.25 75% = 75/100 = 0.75

30% = 30/100 = 0.3

Page number	Question number	Answers
87	1	0.2, 2/10, 20% 0.6, 6/10, 60% 0.3, 3/10, 30% 0.7, 7/10, 70% 0.4, 4/10, 40% 0.8, 8/10, 80% 0.5, 5/10, 50% 0.9, 9/10, 90%
	2	1/2 of 30, 15, 50% of 30 1/10 of 60, 6, 10% of 60 1/4 of 80, 20, 25% of 80 1/3 of 9, 3, 33 1/3% of 9 1/5 of 35, 7, 20% of 35 2/5 of 45, 18, 40% of 45 3/4 of 16, 12, 75% of 16
88	1	They had 8 chocolates each.
	2	She received 81 hair clips.
	3	814 people have a season ticket.
	4	102 boys and 68 girls
89		(see table below)
90	1	Answers will vary, check children's accuracy.
91	1	Answers may vary, for example: 5kg + 2.5kg + 250g in Max 8kg box 1390g + 800g + 780g in Max 5kg box 4kg + 3980g in Max 8kg box
92	1b	18m
	1c	Nat's hair is 43.18cm long
	1d	1m 90cm
93	1	Samina 1.75oz Will 450g Joe 1.35kg Emma 7.875lb
	2	1. Samina 50g 2. Will 15oz 3. Joe 3lb 4. Emma 3.5kg
	3	Answers will vary.
94	1	1.5 litres
	2a	B holds more
	2b	7 litres more
	3	3.6 litres
	4a	Steve
	4b	5 litres
95	1–8	Answers will vary, check children's accuracy in conversion.

Page 89 table:

Item	Price in Betty's boutique	Price in Garbo	Where should Kate buy?
Dress	£60	£70	Betty's
Shoes	£15	£18	Betty's
Bag	£45	£20	Garbo
Necklace	£70	£75	Betty's
Perfume	£12	£16	Betty's

Page number	Question number	Answers
96	1a	10cm
	1b	10cm
	1c	Accept 8.8cm or 9cm
	1d	10.5cm
	1e	18cm
97	1–2	Shape 1: Area = 12 squares/12cm², Perimeter = 14cm
		Shape 2: Area = 16 squares/16cm², Perimeter = 16cm
		Shape 3: Area = 12 squares/12cm², Perimeter = 13cm
		Shape 4: Area = 22 squares/22cm², Perimeter = 19cm
		Shape 5: Area = 28 squares/28cm², Perimeter = 23cm
98	1	1: Area = 24cm²
		2: Area = 40m²
		3: Area = 1400cm² or 14m²
		4: Area = 800cm² or 8m²
		5: Area = 2400cm² or 24m²
		6: Area = 2400cm² or 24m²
99	1	Answers will vary.
	2	Answers will vary.
	3	Answers will vary.
100	1	Answers will vary.
	2	Answers will vary.
	3	37 cubes
	4a	A and D
	4b	12 cube units
101	1	Answers will vary.
	2	Answers will vary.
	3	Answers will vary.
102	1–3	Answers will vary, check children's accuracy.
103		Ellie's birthday is 26 March
		Ben's birthday is 29 April
		Allie's birthday is 15 May
		Jane's birthday is 11 March
104	1	9kg or 9000g
	2	10m or 1000cm
	3	21.42km or 21,420m to her office
		She drives 42.84km or 42,840m each day
		She drives 214.2km or 214,200m in a five-day week
	4	Dad had bought 69 litres or 69,000ml of fuel;
		32 litres or 32,000ml of fuel had been used up

Page number	Question number	Answers
105	1	105g or 0.105kg
	2	£10.25
	3	9 turns, 27 sponges
	4	4895g or 4.895kg
	5a	1.55 seconds
	5b	4.36 seconds
106	1	£168.25
	2	£156.79
	3	£325.04
	4	£405.64
	5	£1094.36
107	1	Yes
	2	No
	3	3 – Beth, Izzy and Dev
	4	Answers will vary – check that all children cross and that the weight for each raft doesn't exceed 170kg
108	1a	Right angle
	1b	Acute
	1c	Obtuse
	1d	Obtuse
	1e	Acute
	1f	Obtuse
	1g	Acute
	1h	Acute
	1i	Obtuse
109	1a	Acute
	1b	Acute
	1c	Obtuse
	1d	Right angle
	1e	Right angle
	1f	Obtuse
	1g	Acute
	1h	Obtuse
	2a	45°
	2b	90°
	2c	130°
110	1a	50°
	1b	35°
	1c	95°
	2	Check children's drawings carefully.

Page number	Question number	Answers
111		Angle a = 40°
		Angle b = 154°
		Angle c = 90°
		Angle d = 279°
		Angle e = 135°
		Angle f = 41°
112	1a	80°
	1b	30°
	1c	50°
	1d	90°
	1e	50°
	1f	50°
	1g	35°
	1h	30°
	1i	90°
	1j	38°
113	1a	Accept any of the following: rhombus, parallelogram, delta or inverted kite, kite, trapezium or irregular quadrilateral.
	1b	Right-angled triangle
	1c	Irregular pentagon
	1d	Irregular hexagon
	1e	Irregular heptagon
	1f	Regular hexagon
114	1	a
	2	b
	3	a
	4	b
115	1	Check children's drawings.
	2	Check children's drawings.
	3	They are 90° or right angles
	4a	15°
	4b	5cm
	4c	10cm

Page number	Question number	Answers
116	1a	This is a rectangle because every angle is a right angle; it also has opposite sides that are equal length and parallel.
	1b	This is not a rectangle because it has more than four sides and the angles are not right angles.
	1c	This is a rectangle because it has four right angles and opposite sides are parallel and equal in length.
	1d	This is not a rectangle because its corners are curved and are not right angles.
	1e	This is not a rectangle because its angles are not right angles.
	1f	This is not a rectangle because its angles are not right angles and it has no parallel lines.
	1g	This is not a rectangle because it has more than four sides and it only has two right angles.
	1h	This is not a rectangle because it only has two right angles.
117	1	Check children's answers: 2 equilateral triangles, 4 isosceles triangles and 6 scalene.
	2	Equilateral – all sides are the same length and all angles are equal. Isosceles – two sides are equal length, two angles are equal size. Scalene – all sides and angles are different sizes.
	3	Yes
118	1	

Page number	Question number	Answers
119	1	A (1,1) B (1,4) C (4,6) D (7,4) E (7,1)
	2–3	
120	1	15°C
	2	10°C
	3	London 13°C, Athens 28°C
	4	A line graph is used to show how something measurable changes over a period of time (or continuous data) such as temperature whereas a bar chart or a bar line graph is used to compare numbers of separate things (or discrete data) such as eye colour.
121	1	Check children's drawing.
	2	Check children's drawing.
	3	247
	4	Check children's drawing.

Page number	Question number	Answers
122–123	1	3 hours 10 minutes or 190 minutes
	2	The 19:45 from Nottingham
	3	Answers will vary depending on which journey is chosen to work out the intervals from, for example: <table><tr><td>Liverpool Lime Street</td><td>12:00</td></tr><tr><td>Manchester Piccadilly</td><td>12:48 (48 minutes)</td></tr><tr><td>Stockport</td><td>13:02 (12 minutes)</td></tr><tr><td>Sheffield</td><td>14:09 (67 minutes)</td></tr><tr><td>Chesterfield</td><td>14:29 (20 minutes)</td></tr><tr><td>Nottingham</td><td>15:09 (40 minutes)</td></tr></table>
	4	Check children's answers for understanding of timetable (answers may vary based on which journey the child picks to base the extended service on): For example: a 14:48 b 15:15 c 15:45 d 16:25 e 17:00 f 16:51 g 21:20 h 22:16 i 22:10 j 22:30 k 23:12 l 23:23 m 00:11 n 21:30
	5	Check children's answers.
124	1	Approximately 25 litres
	2	13:45
	3	The driver may have stopped for lunch
	4	The driver filled up with petrol
	5	15 litres
125	1	Encourage children to tell a story that shows an understanding of the continuous nature of the graph such as: running water in a bath, temperature in a town across 15 hours or 15 months, speed on a journey.
	2	Check children's answers against the graph.
	3	Check children's answers against the graph.