

Answers to Scholastic National Curriculum Maths Practice Book for Year 3

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	1	One of the following, depending on start number chosen: 0, 3, 6, 9, 12, 15, 18, 21, 24, 27 1, 4, 7, 10, 13, 16, 19, 22, 25, 28 2, 5, 8, 11, 14, 17, 20, 23, 26, 29
	2	One of the following, depending on start number chosen: 0, 4, 8, 12, 16, 20, 24, 28, 32, 36 1, 5, 9, 13, 17, 21, 25, 29, 33, 37 2, 6, 10, 14, 18, 22, 26, 30, 34, 38 3, 7, 11, 15, 19, 23, 27, 31, 34, 39
	3	One of the following, depending on start number chosen: 0, 5, 10, 15, 20, 25, 30, 35, 40, 45 1, 6, 11, 16, 21, 26, 31, 36, 41, 46 2, 7, 12, 17, 22, 27, 32, 37, 42, 47 3, 8, 13, 18, 23, 28, 33, 38, 43, 48 4, 9, 14, 19, 24, 29, 34, 39, 44, 49
7	1	0, 8, 16, 24, 32, 40, 48, 56, 64, 72 1, 9, 17, 25, 33, 41, 49, 57, 65, 73 2, 10, 18, 26, 34, 42, 50, 58, 66, 74 3, 11, 19, 27, 35, 43, 51, 59, 67, 75 5, 13, 21, 29, 37, 45, 53, 61, 69, 77
	2	6, 14, 22, 30, 38, 46, 54, 62, 70, 78 8, 16, 24, 32, 40, 48, 56, 64, 72, 80 9, 17, 25, 33, 41, 49, 57, 65, 73, 81 13, 21, 29, 37, 45, 53, 61, 69, 77, 85 20, 28, 36, 44, 52, 60, 68, 76, 84, 92

Page number	Question number	Answers																																
8	1a	400																																
	1b	1s are the same																																
	2a	600																																
	2b	1s are the same																																
	3a	400																																
	3b	100s and 10s change																																
	4a	100																																
	4b	100s and 10s change																																
	5a	250																																
	5b	100s and 10s change																																
	6a	500																																
	6b	100s and 10s change																																
9	1a	290																																
	1b	1s are the same																																
	2a	577																																
	2b	1s are the same																																
	3a	253																																
	3b	1s are the same																																
	4a	648																																
	4b	100s change																																
	5a	956																																
	5b	100s change																																
	6a	45																																
	6b	100s change																																
10	1	<table border="1"> <thead> <tr> <th>Number</th> <th>100s</th> <th>10s</th> <th>1s</th> </tr> </thead> <tbody> <tr> <td>649</td> <td>600</td> <td>40</td> <td>9</td> </tr> <tr> <td>333</td> <td>300</td> <td>30</td> <td>3</td> </tr> <tr> <td>509</td> <td>500</td> <td>0</td> <td>9</td> </tr> <tr> <td>590</td> <td>500</td> <td>90</td> <td>0</td> </tr> <tr> <td>950</td> <td>900</td> <td>50</td> <td>0</td> </tr> <tr> <td>905</td> <td>900</td> <td>0</td> <td>5</td> </tr> <tr> <td>237</td> <td>200</td> <td>30</td> <td>7</td> </tr> </tbody> </table>	Number	100s	10s	1s	649	600	40	9	333	300	30	3	509	500	0	9	590	500	90	0	950	900	50	0	905	900	0	5	237	200	30	7
		Number	100s	10s	1s																													
		649	600	40	9																													
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		950	900	50	0																													
		905	900	0	5																													
	237	200	30	7																														
2	Answers will vary.																																	
3	Answers will vary.																																	

Page number	Question number	Answers		
11	1	$963 = 800 + 163$	$963 = 400 + 563$	
		$963 = 700 + 263$	$963 = 300 + 663$	
		$963 = 600 + 363$	$963 = 200 + 763$	
		$963 = 500 + 463$	$963 = 100 + 863$	
		Sentence to show understanding that the number is recombined and that the hundreds number before the addition sign decreases by 100 and after the sign increases by 100 to make 963.		
	2	$743 = 200 + 543$	$743 = 500 + 243$	
		$743 = 300 + 443$	$743 = 600 + 143$	
		$743 = 400 + 343$	$743 = 700 + 43$	
		Sentence to show understanding that the number is recombined and that the hundreds number before the addition sign increases by 100 and after the sign decreases by 100 to make 743.		
	3	$600 + 10 + 2$		
		Accept any combination of 100s, 10s and 1s that make 612.		
12	1	$16 + 8 = \mathbf{24}$	$93 - 7 = \mathbf{86}$	$24 + 7 = \mathbf{31}$
		$16 + 18 = \mathbf{34}$	$93 - 17 = \mathbf{76}$	$24 + 17 = \mathbf{41}$
		$16 + 28 = \mathbf{44}$	$93 - 27 = \mathbf{66}$	$24 + 27 = \mathbf{51}$
	2	$16 + \mathbf{38} = \mathbf{54}$	$93 - \mathbf{37} = \mathbf{56}$	$24 + \mathbf{37} = \mathbf{61}$
		$16 + \mathbf{48} = \mathbf{64}$	$93 - \mathbf{47} = \mathbf{46}$	$24 + \mathbf{47} = \mathbf{71}$
		$16 + \mathbf{58} = \mathbf{74}$	$93 - \mathbf{57} = \mathbf{36}$	$24 + \mathbf{57} = \mathbf{81}$
		$16 + \mathbf{68} = \mathbf{84}$	$93 - \mathbf{67} = \mathbf{26}$	$24 + \mathbf{67} = \mathbf{91}$
	$16 + \mathbf{78} = \mathbf{94}$	$93 - \mathbf{77} = \mathbf{16}$	$24 + \mathbf{77} = \mathbf{101}$	
	$16 + \mathbf{88} = \mathbf{104}$	$93 - \mathbf{87} = \mathbf{6}$	$24 + \mathbf{87} = \mathbf{111}$	

Page number	Question number	Answers														
13	1	18 = 118 232 = 332 147 = 247 523 = 623														
	2	<table border="1"> <thead> <tr> <th>200 less ←</th> <th>Starting number</th> <th>→ 200 more</th> </tr> </thead> <tbody> <tr> <td>162</td> <td>362</td> <td>562</td> </tr> <tr> <td>559</td> <td>759</td> <td>959</td> </tr> <tr> <td>394</td> <td>594</td> <td>794</td> </tr> <tr> <td>631</td> <td>831</td> <td>1031</td> </tr> </tbody> </table>	200 less ←	Starting number	→ 200 more	162	362	562	559	759	959	394	594	794	631	831
200 less ←	Starting number	→ 200 more														
162	362	562														
559	759	959														
394	594	794														
631	831	1031														
14	1a	156, 165, 516, 561, 615, 651														
	1b	831, 879, 887, 897, 901, 910														
	1c	497, 499, 500, 501, 504, 516														
	2	Answers will vary. For example: 458, 548, 854														
	3	Answers will vary based on question 2.														
15	1a	963														
	1b	369														
	2a	752														
	2b	257														
	3a	976														
	3b	235														
16	1	One hundred and sixty-seven = 167 Four hundred and ninety = 490 Nine hundred and ninety-nine = 999 Seven hundred and sixty-five = 765 Six hundred and twenty-two = 622 Fifty-six = 56 Two hundred and thirty = 230 Two hundred and three = 203 Eight hundred and ninety-nine = 899 One hundred = 100														
	2	Answers will vary.														
	3	Answers will vary.														
	4	Answers will vary.														
	17	1	10 answers from the following lists: Odd – 45, 47, 49, 57, 59, 65, 67, 69, 75, 79, 85, 87, 89, 95, 97 Even – 46, 48, 54, 56, 58, 64, 68, 74, 76, 78, 84, 86, 94, 96, 98													
2	Answers will vary based on answer to question 1. For example, 98															
3	Answers will vary based on answer to question 1. For example, 45															

Page number	Question number	Answers
18	1a	40km, 80km, 20km, 70km
	1b	110 mins, 130 mins, 100 mins, 120 mins
	2a	300
	2b	800
	2c	400, 500
	2d	700
	3b	47, 50
	3c	84, 80
	3d	104, 100
	3e	81, 80
	3f	86, 90
	3g	68, 70
	3h	180, 180
19	1b	20, 16
	1c	70, 66
	1d	30, 31
	1e	70, 71
	1f	60, 61
	1g	30, 33
	1h	20, 21
	1i	110, 110
	1j	150, 149
	2	22m ticked
	3	5, 10, 80
20	1	Yes.
	2	2×30 is 60 and it is also an even number; 3×20 is 60; 4×15 is 60; 5×12 is 60 and it also ends in 0; 6×10 is 60; 10×6 is 60 and it also ends in 0.
21	1	Bella Rings, Neal Down, Penny Chews, Ray Gunn, Stan Dupp
	2	20, 29
	3	429
22	1	Accept any suitable answer. Examples could include $14 + 3$, $9 + 8$, $12 + 5$, $20 - 3$, $20 - 3$, $19 - 2$
	2	$1 + 19$, $2 + 18$, $3 + 17$, $4 + 16$, $5 + 15$, $6 + 14$, $7 + 13$, $8 + 12$, $9 + 11$, $10 + 10$ – accept numbers in either order.
23	1	$8 + 92 = 100$, $11 + 89 = 100$, $15 + 85 = 100$, $16 + 84 = 100$, $22 + 78 = 100$, $31 + 69 = 100$, $36 + 64 = 100$, $38 + 62 = 100$, $44 + 56 = 100$, $49 + 51 = 100$
	2a	33 stamps
	2b	28p

Page number	Question number	Answers
24	1a	61
	1b	81
	1c	101
	1d	43
	1e	75
	1f	84
	1g	85
	1h	52
	1i	40
	1j	102
	2	Answers will vary.
	3	Answers will vary.
25	1	75 (56 + 19) 86 (65 + 21) (57 + 29) 58 (29 + 29) 93 (62 + 31) 64 (45 + 19) 63 (34 + 29) 49 (28 + 21) 100 (69 + 31) 73 (52 + 21) 81 (62 + 19) (52 + 29)
	26	
	1a	11
	1b	71
	1c	81
1d	23	
1e	43	
1f	35	
1g	101	
1h	27	
1i	33	
2a	150cm or 1.5m	
2b	170kg	
2c	110p or £1.10	
2d	90kg	
3a	21 biscuits	
3b	29 rulers	
3c	48	

Page number	Question number	Answers				
27	1	Question	Answer	Counting on	Add and adjust	Using doubles
		45 + 19	64		✓	
		78 + 6	84	✓		
		34 + 35	69			✓
		49 + 30	79		✓	
		60 + 29	89		✓	
		84 + 9	93		✓	
		26 + 25	51			✓
		27 + 7	34	✓		
		41 + 42	83			✓
		94 + 7	101	✓		
28	1	Answers will vary.				
	2	Answers will vary.				
	3	Answers will vary.				
29		Answers are: 81 animals 104 186p or £1.86 8 27				
30	1a	81				
	1b	37				
	1c	152				
	1d	17				
	1e	171				
	1f	35				
	1g	180				
	1h	88				
	1i	237				
	1j	245				

Page number	Question number	Answers														
31	1	<p>Either strategy could be used.</p> <table border="1"> <thead> <tr> <th>Question</th> <th>Answer</th> </tr> </thead> <tbody> <tr> <td>$9 + 5 + 6 + 4$</td> <td>24</td> </tr> <tr> <td>$6 + 8 + 4 + 7$</td> <td>25</td> </tr> <tr> <td>$5 + 9 + 8 + 4$</td> <td>26</td> </tr> <tr> <td>$17 + 4 + 8 + 3$</td> <td>32</td> </tr> <tr> <td>$15 + 8 + 5 + 9$</td> <td>37</td> </tr> <tr> <td>$13 + 5 + 7 + 8$</td> <td>33</td> </tr> </tbody> </table>	Question	Answer	$9 + 5 + 6 + 4$	24	$6 + 8 + 4 + 7$	25	$5 + 9 + 8 + 4$	26	$17 + 4 + 8 + 3$	32	$15 + 8 + 5 + 9$	37	$13 + 5 + 7 + 8$	33
	Question	Answer														
$9 + 5 + 6 + 4$	24															
$6 + 8 + 4 + 7$	25															
$5 + 9 + 8 + 4$	26															
$17 + 4 + 8 + 3$	32															
$15 + 8 + 5 + 9$	37															
$13 + 5 + 7 + 8$	33															
2	Answers will vary. Examples could include $13 + 7 + 2 + 8$, $9 + 8 + 7 + 6$, $10 + 9 + 6 + 5$															
32	<p>Estimate: 80, Answer: 81</p> <p>Estimate: 90, Answer: 93</p> <p>Estimate: 70, Answer: 65</p> <p>Estimate: 70, Answer: 71</p> <p>Estimate: 50, Answer: 47</p>															
33	1	<p>64</p> <p>76</p> <p>37</p> <p>29</p> <p>30</p> <p>87</p> <p>97</p> <p>36</p> <p>49</p> <p>87</p>														
	2	Answers will vary.														
34	1	<p>333</p> <p>623</p> <p>377</p>														
35	1	<p>377 children</p> <p>£267</p> <p>599cm</p> <p>401 miles</p> <p>742 parcels</p> <p>660 books</p>														

Page number	Question number	Answers
36	1a	200 and 30 and 4 100 and 20 and 3 = 111
	1b	600 and 80 and 7 300 and 60 and 3 = 324
	1c	500 and 90 and 6 200 and 40 and 5 = 351
	1d	600 and 20 and 7 400 and 0 and 2 = 225
37	1	207, 374 149, 374
	2	326, 248 485, 356
38–39	1	34 marbles
	2	6 toffees
	3	70 cars
	4	10p
	5	10p
	6	40 books
40	1	79 balls 75 children 39 children 31 parents 7 are male 36 boys
41	1a	65
	1b	50
	1c	40 57
	1d	57
42–43	1	4, 18, 36, 88, 102, 654, 748
	2	5, 25, 65, 80, 315, 450, 900
	3	20, 80, 100, 120, 870
	4	2, 4, 6, 8, 0
	5	5, 0
	6	The 1s digit is a 0
	7	Answers will vary. Examples could include 10, 20 or 100
	8	$20 \div 2 = 10$, $20 \div 5 = 4$, $20 \div 10 = 2$, $20 \div 4 = 5$.
	9	No
	10	$2 \times 5 = 10$, $5 \times 2 = 10$, $10 \div 5 = 2$, $10 \div 2 = 5$
	11	176, 275

Page number	Question number	Answers									
44	1	<p>3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39</p> <p>Multiple of 3</p> <p>Number less than 30</p>									
	2	<p>4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48</p> <p>Multiple of 4</p> <p>Number less than 30</p>									
45	4	<table border="1"> <thead> <tr> <th></th> <th>Multiple of 4</th> <th>Not a multiple of 4</th> </tr> </thead> <tbody> <tr> <th>Multiple of 3</th> <td>12, 24, 36</td> <td>3, 6, 9, 15, 18, 21, 27, 30, 33, 39</td> </tr> <tr> <th>Not a multiple of 3</th> <td>4, 8, 16, 20, 28, 32, 40</td> <td>1, 2, 5, 7, 10, 11, 13, 14, 17, 19, 22, 23, 25, 26, 29, 31, 34, 35, 37, 38</td> </tr> </tbody> </table>		Multiple of 4	Not a multiple of 4	Multiple of 3	12, 24, 36	3, 6, 9, 15, 18, 21, 27, 30, 33, 39	Not a multiple of 3	4, 8, 16, 20, 28, 32, 40	1, 2, 5, 7, 10, 11, 13, 14, 17, 19, 22, 23, 25, 26, 29, 31, 34, 35, 37, 38
	Multiple of 4	Not a multiple of 4									
Multiple of 3	12, 24, 36	3, 6, 9, 15, 18, 21, 27, 30, 33, 39									
Not a multiple of 3	4, 8, 16, 20, 28, 32, 40	1, 2, 5, 7, 10, 11, 13, 14, 17, 19, 22, 23, 25, 26, 29, 31, 34, 35, 37, 38									
46	1a	48									
	1b	72									
	1c	32									
	1d	24									
	1e	64									
	1f	16									
	1g	80									
	2	<p>48 legs = 6 spiders</p> <p>64 legs = 8 spiders</p> <p>32 legs = 4 spiders</p> <p>80 legs = 10 spiders</p> <p>16 legs = 2 spiders</p>									
	3	even									






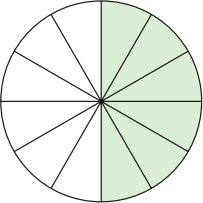
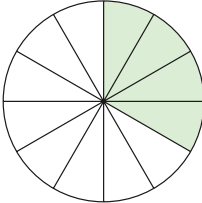
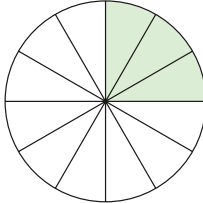
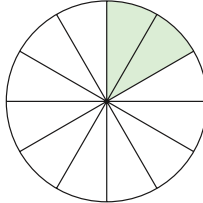
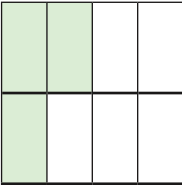
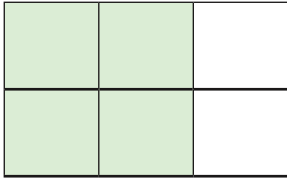
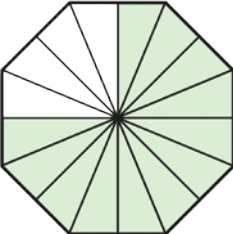
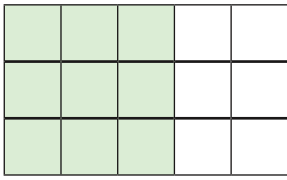
Page number	Question number	Answers			
47	1		Multiple of 8	Not a multiple of 8	
		Multiple of 2	24, 48, 56, 64, 72, 80		4, 12, 18, 26, 44, 50, 68
		Not a multiple of 2	35, 37, 49		
	2	Numbers that are multiples of 8 but not multiples of 2. Accept any explanation that shows understanding that all multiples of 8 are even numbers/also multiples of 2.			
48–49	1	$6 \times 3 = 18$ hair ties			
	2	$5 \times 6 = 30$ p			
	3	$4 \times 8 = 32$ cakes			
	4	$7 \times 6 = 42$ felt-tipped pens			
	5	$6 \times 9 = 54$ oranges			
	6	$8 \times 5 = 40$ eggs			
	7	$24 \div 4 = 6$ bulbs			
	8	$24 \div 3 = 8$ flowers			
	9	$42 \div 6 = 7$ boxes			
	10	$90 \div 10 = 9$ pens			
	11	$36 \div 4 = 9$ tables			
	12	$6 \times 5 = 30$ children			
50	1–3	Multiplication	Multiplication	Division	Division
		$5 \times 4 = 20$	$4 \times 5 = 20$	$20 \div 5 = 4$	$20 \div 4 = 5$
		$6 \times 3 = 18$	$3 \times 6 = 18$	$18 \div 3 = 6$	$18 \div 6 = 3$
		$3 \times 8 = 24$	$8 \times 3 = 24$	$24 \div 3 = 8$	$24 \div 8 = 3$
		$5 \times 6 = 30$	$6 \times 5 = 30$	$30 \div 5 = 6$	$30 \div 6 = 5$
		$9 \times 10 = 90$	$10 \times 9 = 90$	$90 \div 10 = 9$	$90 \div 9 = 10$
51	1a	eight, eight			
	1b	3, 3			
	1c	28, 4			
	1d	thirty-two, thirty-two			
	2a	7, 21, 21			
	2b	8, 16, 2			
	2c	60, 10, 6			
	3	$7 \times 5 = 35$	$35 \div 7 = 5$		
	$5 \times 7 = 35$	$35 \div 5 = 7$			

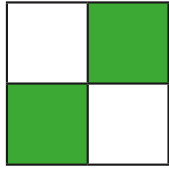
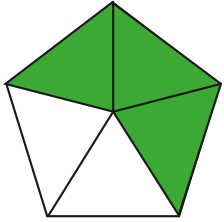
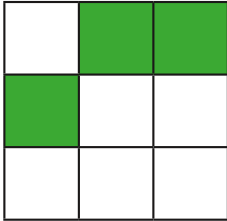
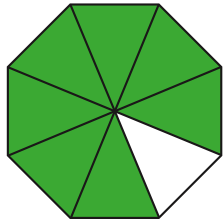
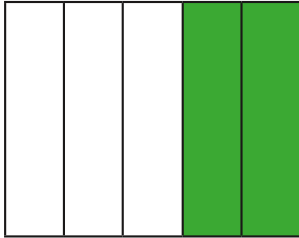
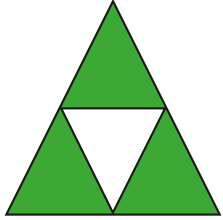
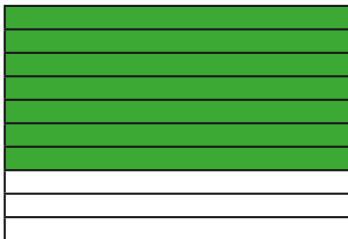
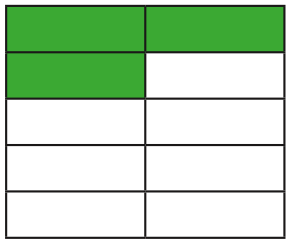
Page number	Question number	Answers																				
52	1–4	Answers will vary. Examples could include:																				
		<table border="1"> <thead> <tr> <th>Grid number</th> <th>Row number</th> <th>Number sentence</th> <th>Jottings</th> <th>Answer</th> </tr> </thead> <tbody> <tr> <td>11</td> <td>3</td> <td>11×5</td> <td>10×5 (50) and 1×5 (5)</td> <td>55</td> </tr> <tr> <td>16</td> <td>6</td> <td>16×6</td> <td>10×6 (60) and 6×6 (36)</td> <td>96</td> </tr> <tr> <td>13</td> <td>4</td> <td>13×4</td> <td>10×4 (40) and 3×4 (12)</td> <td>52</td> </tr> </tbody> </table>	Grid number	Row number	Number sentence	Jottings	Answer	11	3	11×5	10×5 (50) and 1×5 (5)	55	16	6	16×6	10×6 (60) and 6×6 (36)	96	13	4	13×4	10×4 (40) and 3×4 (12)	52
		Grid number	Row number	Number sentence	Jottings	Answer																
		11	3	11×5	10×5 (50) and 1×5 (5)	55																
16	6	16×6	10×6 (60) and 6×6 (36)	96																		
13	4	13×4	10×4 (40) and 3×4 (12)	52																		
53	1a	$43 \times 2 = 86$																				
	1b	$23 \times 2 = 46$																				
	1c	$24 \times 3 = 72$																				
	1d	$48 \times 2 = 96$																				
	1e	$14 \times 3 = 42$																				
	1f	$26 \times 4 = 104$																				
54–55	1a	64																				
	1b	165																				
	1c	192																				
	1d	225																				
	1e	124																				
	1f	288																				
	1g	320																				
	1h	261																				
	2	Answers will vary. Examples could include $27 \times 3 = 81$, $36 \times 5 = 180$, $49 \times 2 = 98$, $58 \times 8 = 464$, $64 \times 4 = 256$, $73 \times 10 = 730$																				
56	1a	$24 \div 3 = 8$																				
	1b	$30 \div 5 = 6$																				
	1c	$14 \div 2 = 7$																				
	1d	$24 \div 4 = 6$																				
	1e	$30 \div 10 = 3$																				

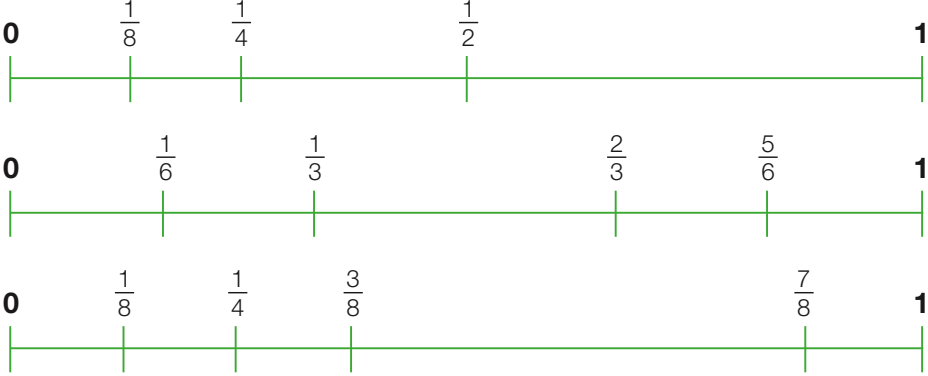
Page number	Question number	Answers																																	
57	1a	6																																	
	1b	5																																	
	1c	7																																	
	1d	4																																	
	1e	13																																	
	1f	9																																	
	1g	7																																	
	1h	12																																	
	1i	9																																	
	2a	eight groups																																	
	2b	eight																																	
	2c	nine																																	
	3a	4cm																																	
	3b	3 hours																																	
	3c	10km																																	
	3d	9g																																	
	3e	£12																																	
	3f	2kg																																	
58–59	1a	21																																	
	1b	15																																	
	1c	32																																	
	1d	15																																	
	1e	24																																	
	1f	17																																	
	1g	19																																	
	1h	36																																	
	2	$86 \div 2 = 43$ $72 \div 4 = 18$ $65 \div 5 = 13$ $96 \div 8 = 12$ $75 \div 3 = 25$																																	
60	1	<table border="1"> <thead> <tr> <th>Start number</th> <th>$\times 10$</th> <th>$\times 100$</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>50</td> <td>500</td> </tr> <tr> <td>8</td> <td>80</td> <td>800</td> </tr> <tr> <td>4</td> <td>40</td> <td>400</td> </tr> <tr> <td>9</td> <td>90</td> <td>900</td> </tr> <tr> <td>7</td> <td>70</td> <td>700</td> </tr> <tr> <td>1</td> <td>10</td> <td>100</td> </tr> <tr> <td>10</td> <td>100</td> <td>1000</td> </tr> <tr> <td>30</td> <td>300</td> <td>3000</td> </tr> <tr> <td>80</td> <td>800</td> <td>8000</td> </tr> <tr> <td>90</td> <td>900</td> <td>9000</td> </tr> </tbody> </table>	Start number	$\times 10$	$\times 100$	5	50	500	8	80	800	4	40	400	9	90	900	7	70	700	1	10	100	10	100	1000	30	300	3000	80	800	8000	90	900	9000
		Start number	$\times 10$	$\times 100$																															
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		4	40	400																															
		9	90	900																															
		7	70	700																															
		1	10	100																															
		10	100	1000																															
		30	300	3000																															
		80	800	8000																															
	90	900	9000																																
2	Answers will vary.																																		

Page number	Question number	Answers			
61	1a	30			
	1b	700			
	1c	250			
	1d	500			
	1e	6			
	1f	5			
	1g	80			
	1h	9			
	1i	4			
	1j	800			
62	1	Number	Number multiplied by 10	Number multiplied by 100	Can you predict multiplied by 1000?
		3	30	300	3000
		8	80	800	8000
		20	200	2000	20000
		32	320	3200	32000
	2	Number	Number multiplied by 10	Number multiplied by 100	
		2	20	200	
		43	430	4300	
		67	670	6700	
		480	4800	480000	
	3	Number	Number multiplied by 10	Number multiplied by 100	
		17	170	1700	
		42	420	4200	
		62	620	6200	
		54	540	5400	
63	1a	6, 60			
	1b	4, 60			
	1c	40, 400			
	1d	8, 40			
	1e	350			
	1f	480			
	1g	450p or £4.50			
	1h	240mm			
	1i	140p or £1.40			

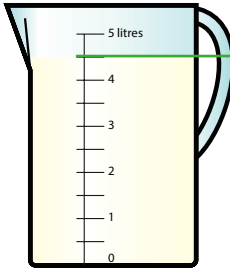




Page number	Question number	Answers												
64	1b	30, 15												
	1c	28, 14												
	1d	18, 9												
	1e	36, 18												
	1f	32, 16												
	2a	24												
	2b	12												
	2c	34												
	2d	17												
	2e	26												
	2f	13												
	2g	38												
	2h	19												
	3	Answers will vary.												
65	1	Triangle with 6 at centre – 24, 48 Triangle with 7 at centre – 14, 28												
	2	<table border="0"> <tr> <td>12</td> <td>12</td> <td>7</td> <td>7</td> </tr> <tr> <td>24</td> <td>6</td> <td>7</td> <td>14</td> </tr> <tr> <td>48</td> <td>24</td> <td>7</td> <td>28</td> </tr> </table>	12	12	7	7	24	6	7	14	48	24	7	28
	12	12	7	7										
24	6	7	14											
48	24	7	28											
3	Answers will vary.													
66–67	1	$60 \div 5 = 12$ $35 \times 3 = 105$ $75 \div 5 = 15$ $64 \times 5 = 320$												
	2	$5 \times 14 = 70$ $12 + 14 = 26 \div 6 = 4$ remainder 2; Answer: 4 boxes $64 \div 2 = 32 \div 2 = 16$; Answer: 16 chocolate flakes $25 + 20 = 45 \div 6 = 7$ remainder 3; Answer; 8 cartons												
68–69	1	12 marbles 20p 6 boxes £2.50 6 trays 9 trays												
	2	4 packs 9 cars 6 books, £30 5 baskets												

Page number	Question number	Answers
70	1	 $\frac{1}{8}$
		 $\frac{1}{10}$
		 $\frac{1}{3}$
		 $\frac{1}{4}$
		 $\frac{1}{2}$
71	1	7 8 28 $\frac{1}{3}$ of 21 because that is 7 where as $\frac{1}{4}$ 20 is only 5
72	1	 one half
		 one third
		 one quarter
		 one sixth
	2	$\frac{3}{6}$
	3	$\frac{2}{6}$
	4	$\frac{2}{4}$
73	1	 $\frac{3}{8}$
		 $\frac{2}{3}$
		 $\frac{3}{4}$
		 $\frac{3}{5}$
		2
	3a	75cm
	3b	240g
	3c	100ml







Page number	Question number	Answers																		
74	1	2kg, 225g 100ml, 29cm 2cm, 21m																		
	2	1.5cm or $1\frac{1}{2}$ cm																		
75	1	 $\frac{1}{2}$ or $\frac{2}{4}$	 $\frac{3}{5}$																	
		 $\frac{5}{9}$ or $\frac{1}{3}$	 $\frac{7}{8}$																	
		 $\frac{2}{5}$	 $\frac{3}{4}$																	
		 $\frac{7}{10}$	 $\frac{3}{10}$																	
		76	1	<table border="1"> <thead> <tr> <th>Shape</th> <th>Simple fraction</th> <th>Equivalent fraction</th> </tr> </thead> <tbody> <tr> <td>Triangles</td> <td>$\frac{3}{24}$</td> <td>$\frac{1}{8}$</td> </tr> <tr> <td>Squares</td> <td>$\frac{9}{24}$</td> <td>$\frac{3}{8}$</td> </tr> <tr> <td>Circles</td> <td>$\frac{8}{24}$</td> <td>$\frac{1}{3}$</td> </tr> <tr> <td>Pentagons</td> <td>$\frac{4}{24}$</td> <td>$\frac{1}{6}$</td> </tr> <tr> <td>Triangles and squares</td> <td>$\frac{12}{24}$</td> <td>$\frac{1}{2}$</td> </tr> </tbody> </table>	Shape	Simple fraction	Equivalent fraction	Triangles	$\frac{3}{24}$	$\frac{1}{8}$	Squares	$\frac{9}{24}$	$\frac{3}{8}$	Circles	$\frac{8}{24}$	$\frac{1}{3}$	Pentagons	$\frac{4}{24}$	$\frac{1}{6}$	Triangles and squares
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Pentagons	$\frac{4}{24}$	$\frac{1}{6}$																		
Triangles and squares	$\frac{12}{24}$	$\frac{1}{2}$																		
2	$\frac{1}{2} = \frac{3}{6} = \frac{12}{24} = \frac{5}{10}$ $\frac{1}{4} = \frac{2}{8} = \frac{5}{20} = \frac{4}{16}$																			
77	1-2	$\frac{1}{2} = \frac{2}{4} = \frac{2}{8} = \frac{1}{4}$ $\frac{4}{10} = \frac{2}{5} = \frac{4}{6} = \frac{2}{3}$ $\frac{8}{10} = \frac{4}{5} = \frac{5}{10} = \frac{1}{2}$ Answers will vary for comparison fractions.																		

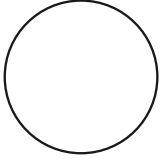
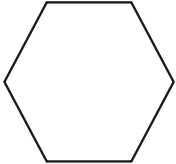

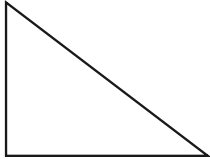
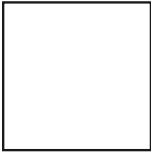
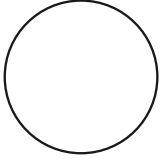
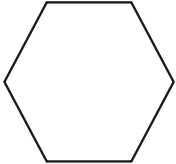

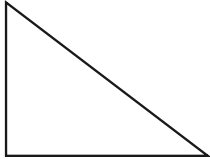
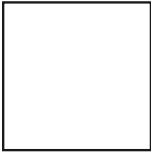
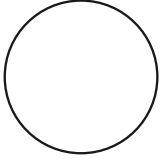
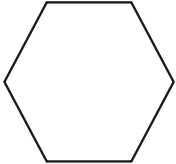

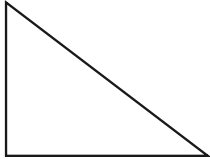
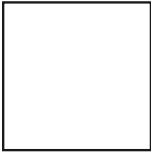
Page number	Question number	Answers
78	1	$\frac{1}{4} = \frac{2}{8}$ $\frac{1}{3} = \frac{2}{6}$ $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$ $\frac{3}{4} = \frac{6}{8}$ $\frac{2}{3} = \frac{4}{6}$ $\frac{1}{5} = \frac{2}{10}$ $\frac{3}{5} = \frac{6}{10}$
79	1a-c	
	2	Answers will vary.
	3	Answers will vary based on question 2.
80	1	$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ $\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$ $\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$ $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$ $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$
	2	$\frac{6}{6} - \frac{5}{6} = \frac{1}{6}$ $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ $\frac{8}{8} - \frac{3}{8} = \frac{5}{8}$
81	1	$\frac{3}{10}, \frac{7}{10}, \frac{9}{10}$
	2	$\frac{1}{10}, \frac{4}{10}, \frac{8}{10}$
	3	$\frac{2}{10}, \frac{5}{10}, \frac{6}{10}, \frac{8}{10}, \frac{9}{10}, \frac{10}{10}$
82	1	3 cars circled
	2	2 pencils circled
	3	60p circled
	4	90cm
	5	£2.70
	6	£5.50

Page number	Question number	Answers
83–84	1	60p 18 marbles 12 cakes 15 oranges
	2a	£15
	2b	£10
	2c	£5
	2d	£5
85	1	$\frac{5}{10}$ of the ruler $\frac{600}{1000}$ or $\frac{6}{10}$ of the weighing scales $\frac{900}{1000}$ or $\frac{90}{100}$ of the measuring jug $\frac{1}{4}$ of the clock $\frac{1}{3}$ of the clock $\frac{32}{100}$ of the metre stick
86	1a	6cm
	1b	7.5cm
	1c	4.5cm
	1d	8cm
	1e	2cm
	2a	Check accuracy with ruler.
	2b	Check accuracy with ruler.
	2c	Check accuracy with ruler.
	2d	Check accuracy with ruler.
	2e	Check accuracy with ruler.
87	1	Answers will vary.
	2	Answers will vary.
88	2	Answers will vary.
	3	Answers will vary.
89	2	Answers will vary.
	3	Answers will vary.
90	1	550g, 1.5kg, 3kg
	2	Check children's drawings.
91	1–2	370g = 200g, 100g, 50g, 20g 65g = 50g, 10g, 5g 17g = 10g, 5g, 1g, 1g 751g = 500g, 200g, 50g, 1g 73g = 50g, 20g, 1g, 1g, 1g 155g = 100g, 50g, 5g 558g = 500g, 50g, 5g, 1g, 1g, 1g 2.3kg = 500g, 500g, 500g, 500g, 200g, 100g

Page number	Question number	Answers
92-93	1	Car – measure in litres Drink – measure in millilitres Bath – measure in litres Milk on cereal – measure in millilitres
	2	Answers will vary.
94	1	300ml, 650ml, 950ml, 2.5l, 4l 50ml, 600ml, 1400ml, 10ml
	2	 <p>4.5 litres</p>
95	1	4kg, 800g 200ml, 300ml 7cm, 47cm 20°C
96	1-2	6:10, 5:25 9:15, 7:20 5:50, 3:35 4:55, 12:00 10:40, 2:45
	3a	Answers will vary.
	3b	Answers will vary.
	3c	Answers will vary.
97	1a	 <p>7:12pm</p>
	1b	 <p>8:23pm</p>
	1c	 <p>7:32am</p>
	1d	 <p>12:36am</p>

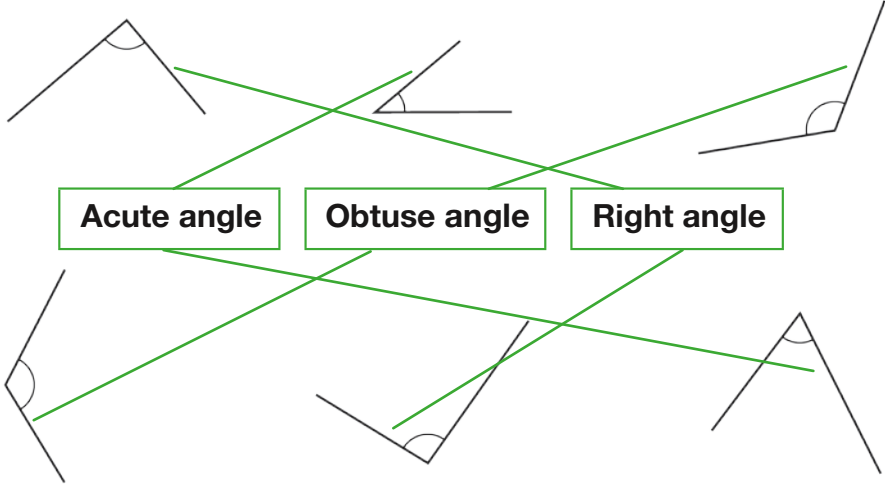



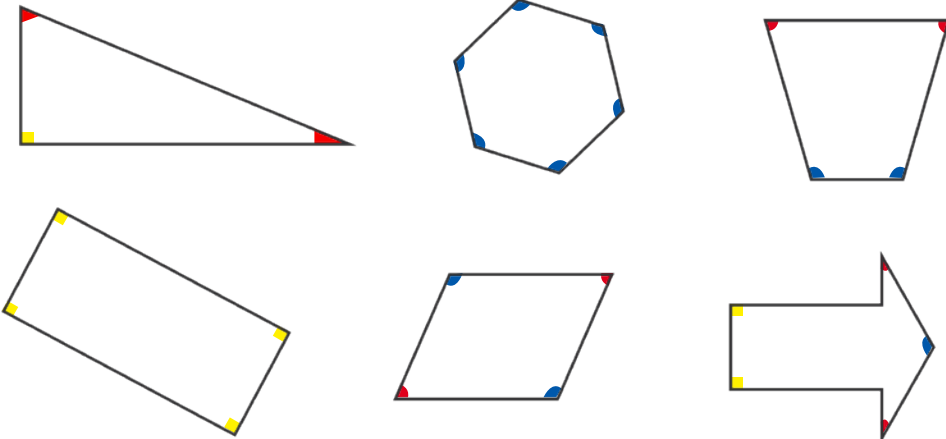
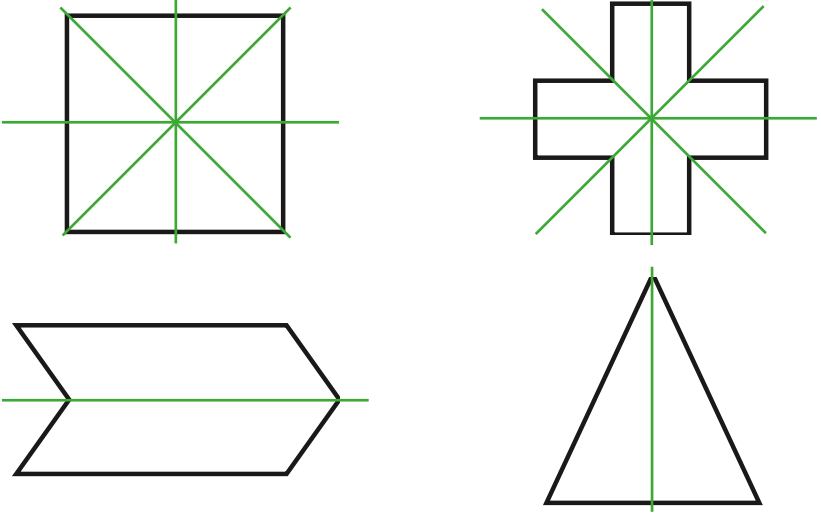
Page number	Question number	Answers																																							
98	1–3	Answers will vary.																																							
	4	60 seconds in a minute; 60 minutes in an hour 24 hours in a day; 7 days in a week 52 weeks in a year; 365 days in a year																																							
	5	Zip up a jacket = seconds Go on holiday = days Read a book = days A school term = weeks Growing from a child to an adult = years																																							
99	1	<table border="1"> <thead> <tr> <th></th> <th>Month</th> <th>Number of days</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>January</td> <td>31</td> </tr> <tr> <td>2</td> <td>February</td> <td>28 or 29</td> </tr> <tr> <td>3</td> <td>March</td> <td>31</td> </tr> <tr> <td>4</td> <td>April</td> <td>30</td> </tr> <tr> <td>5</td> <td>May</td> <td>31</td> </tr> <tr> <td>6</td> <td>June</td> <td>30</td> </tr> <tr> <td>7</td> <td>July</td> <td>31</td> </tr> <tr> <td>8</td> <td>August</td> <td>31</td> </tr> <tr> <td>9</td> <td>September</td> <td>30</td> </tr> <tr> <td>10</td> <td>October</td> <td>31</td> </tr> <tr> <td>11</td> <td>November</td> <td>30</td> </tr> <tr> <td>12</td> <td>December</td> <td>31</td> </tr> </tbody> </table>		Month	Number of days	1	January	31	2	February	28 or 29	3	March	31	4	April	30	5	May	31	6	June	30	7	July	31	8	August	31	9	September	30	10	October	31	11	November	30	12	December	31
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11	November	30																																							
12	December	31																																							
2a	29 days																																								
2b	366 days																																								
2c	Every 4 years																																								
2d	2016 – and every 4 years after that																																								
100–101	1a	Answers will vary.																																							
	1b	Answers will vary.																																							
	1c	Answers will vary.																																							
	1d	Answers will depend on answers 1a – 1c.																																							
	1e	Answers will depend on answer 1d.																																							
	2a	Short Stories and Creepy Tales																																							
	2b	Answers will vary.																																							
	2c	36p change																																							
2d	Answers will vary.																																								
102	1	Car – metres Sign post – metres Hamster – centimetres Thimble – millimetres																																							
	2a	125cm																																							
	2b	30 centimetres																																							
	3	Answers will vary.																																							

Page number	Question number	Answers
103	1a	True
	1b	False
	1c	False
	1d	False
	1e	True
	1f	True
	1g	False
	1h	False
	1i	True
	1j	True
	1k	False
	104	1
105	2a	 8:40
	2b	 10:10
	2c	 1:50
	2d	 4:30
	2e	 5:50
	2f	 9:40

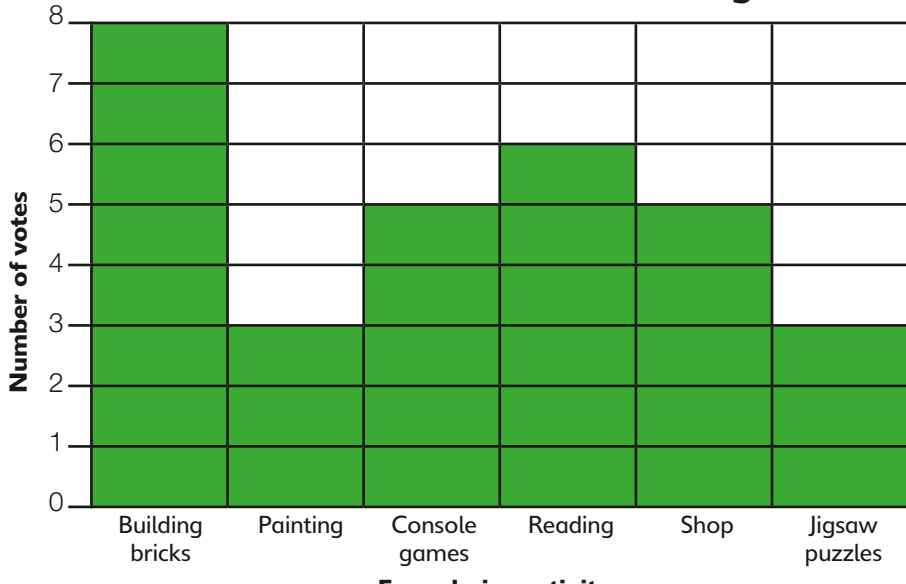
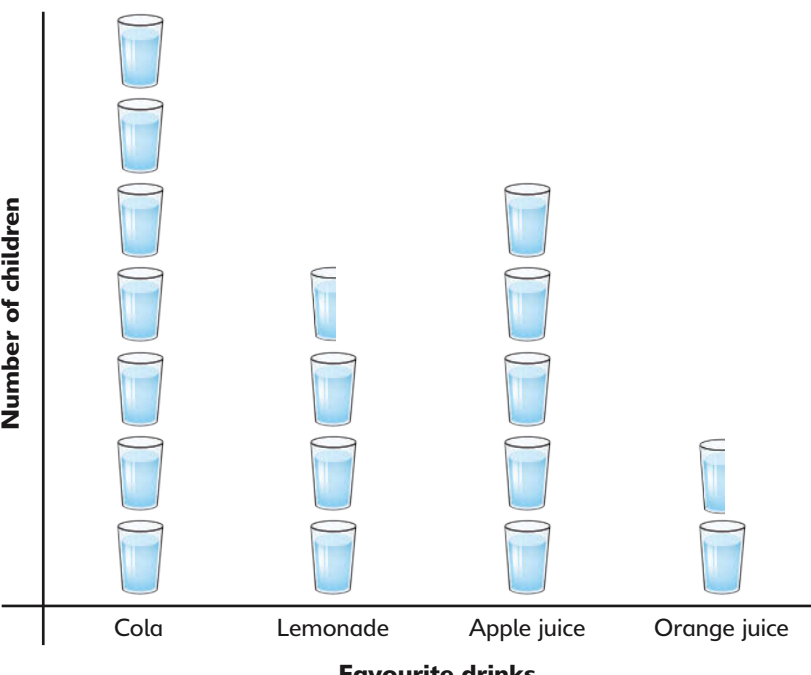
Page number	Question number	Answers												
106	1-4	<table border="1"> <thead> <tr> <th colspan="2" data-bbox="536 185 1144 286">Shape</th> </tr> </thead> <tbody> <tr> <td data-bbox="536 286 836 495">  </td> <td data-bbox="836 286 1144 495"> <p>This shape has no straight sides and is symmetrical.</p> </td> </tr> <tr> <td data-bbox="536 495 836 703">  </td> <td data-bbox="836 495 1144 703"> <p>This shape has angles all the same size. It has no right angles. It has six sides</p> </td> </tr> <tr> <td data-bbox="536 703 836 911">  </td> <td data-bbox="836 703 1144 911"> <p>This shape is not a square. It is a quadrilateral. It has four right angles.</p> </td> </tr> <tr> <td data-bbox="536 911 836 1120">  </td> <td data-bbox="836 911 1144 1120"> <p>This shape has three sides. It has a right angle.</p> </td> </tr> <tr> <td data-bbox="536 1120 836 1328">  </td> <td data-bbox="836 1120 1144 1328"> <p>This shape is a quadrilateral. All of its sides are the same length. All of its angles are the same size.</p> </td> </tr> </tbody> </table>	Shape			<p>This shape has no straight sides and is symmetrical.</p>		<p>This shape has angles all the same size. It has no right angles. It has six sides</p>		<p>This shape is not a square. It is a quadrilateral. It has four right angles.</p>		<p>This shape has three sides. It has a right angle.</p>		<p>This shape is a quadrilateral. All of its sides are the same length. All of its angles are the same size.</p>
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	<p>This shape has three sides. It has a right angle.</p>													
	<p>This shape is a quadrilateral. All of its sides are the same length. All of its angles are the same size.</p>													
107	1	Children should have drawn three different rectangles and/or squares.												
	2	Answers will vary.												
108	1	Answer will vary check the drawings.												

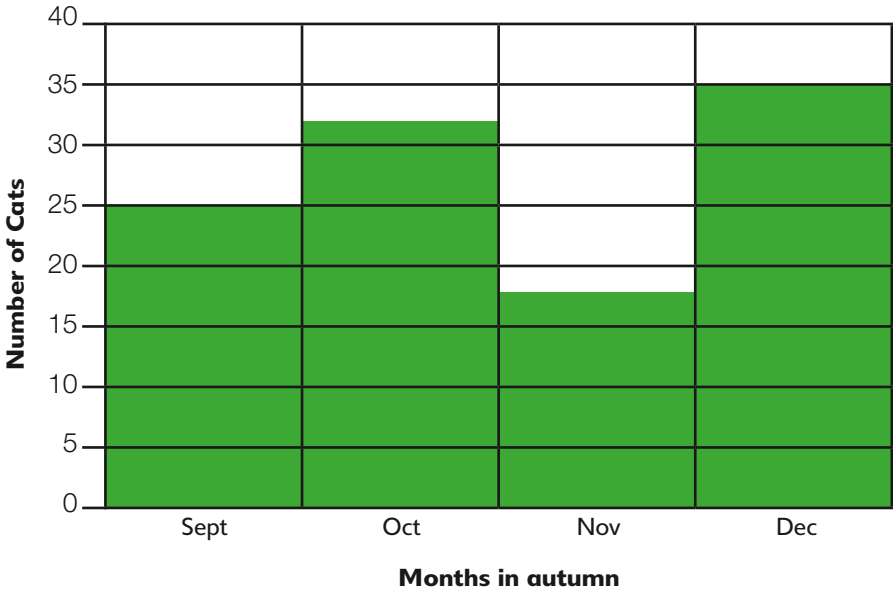
Page number	Question number	Answers
109	1-2	<pre> graph TD Q1[Does the shape roll?] -- Yes --> B1[Yes cylinder cone sphere] Q1 -- No --> B2[No cube cuboid triangular prism] B1 --> Q2[Does it have flat faces?] B2 --> Q3[Does it have six faces?] Q2 -- Yes --> B3[Yes cylinder cone] Q2 -- No --> B4[No sphere] B3 --> Q4[Does it have two flat faces?] B4 --> Q5[Are all the faces the same size and shape?] Q4 -- Yes --> B5[Yes cylinder] Q4 -- No --> B6[No cone] Q5 -- Yes --> B7[Yes cube] Q5 -- No --> B8[No cuboid] </pre>
110	1	
	2	
	3	Tree = Vertical Fence = Horizontal

Page number	Question number	Answers														
111	1-3															
112	1	$\frac{1}{4}$ turn, $\frac{1}{4}$ turn $\frac{1}{2}$ turn, $\frac{1}{2}$ turn $\frac{3}{4}$ turn, $\frac{3}{4}$ turn														
	2	<table border="1"> <thead> <tr> <th></th> <th>Type of turn</th> <th>Number of right angles</th> </tr> </thead> <tbody> <tr> <td>west to east?</td> <td>$\frac{1}{2}$ turn</td> <td>2</td> </tr> <tr> <td>south-west to south-east?</td> <td>$\frac{3}{4}$ turn</td> <td>3</td> </tr> <tr> <td>east to north?</td> <td>$\frac{3}{4}$ turn</td> <td>3</td> </tr> <tr> <td>north-west to south-east?</td> <td>$\frac{1}{2}$ turn</td> <td>2</td> </tr> </tbody> </table>		Type of turn	Number of right angles	west to east?	$\frac{1}{2}$ turn	2	south-west to south-east?	$\frac{3}{4}$ turn	3	east to north?	$\frac{3}{4}$ turn	3	north-west to south-east?	$\frac{1}{2}$ turn
	Type of turn	Number of right angles														
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south-west to south-east?	$\frac{3}{4}$ turn	3														
east to north?	$\frac{3}{4}$ turn	3														
north-west to south-east?	$\frac{1}{2}$ turn	2														

Page number	Question number	Answers
113	1	
	2	<p data-bbox="544 730 1477 786"> Acute angles  Obtuse angles  Right angles  </p> 
114	1	Shape 2 and 5 have no lines of symmetry
	2	

Page number	Question number	Answers										
115												
116	1	Rhombus; Cylinder Right-angled triangle; Square-based pyramid Cone; Regular pentagon										
117	1	Check children's colouring.										
118	1a	11										
	1b	28										
	1c	Thursday										
	1d	53										
	1e	Answer will vary										
119	1	<table border="1"> <thead> <tr> <th>Console game</th> <th>Number of children</th> </tr> </thead> <tbody> <tr> <td>Platform</td> <td></td> </tr> <tr> <td>Racing</td> <td></td> </tr> <tr> <td>Puzzle</td> <td></td> </tr> <tr> <td>Sports</td> <td></td> </tr> </tbody> </table>	Console game	Number of children	Platform		Racing		Puzzle		Sports	
	Console game	Number of children										
	Platform											
	Racing											
	Puzzle											
Sports												
2	Puzzle game											
3	Sports game											
4	33 children											
120	1	8										
	2	Red										
	3	33										
	4	Purple										
	5	Answer will vary										

Page number	Question number	Answers														
121	1	<p style="text-align: center;">Favourite Free-choice activity</p>  <table border="1"> <caption>Data for Favourite Free-choice activity</caption> <thead> <tr> <th>Free-choice activity</th> <th>Number of votes</th> </tr> </thead> <tbody> <tr> <td>Building bricks</td> <td>8</td> </tr> <tr> <td>Painting</td> <td>3</td> </tr> <tr> <td>Console games</td> <td>5</td> </tr> <tr> <td>Reading</td> <td>6</td> </tr> <tr> <td>Shop</td> <td>5</td> </tr> <tr> <td>Jigsaw puzzles</td> <td>3</td> </tr> </tbody> </table>	Free-choice activity	Number of votes	Building bricks	8	Painting	3	Console games	5	Reading	6	Shop	5	Jigsaw puzzles	3
	Free-choice activity	Number of votes														
	Building bricks	8														
Painting	3															
Console games	5															
Reading	6															
Shop	5															
Jigsaw puzzles	3															
2a	Reading															
2b	30 children															
122	1-3	Answers will vary.														
123	1a	17 Sunny days														
	1b	6 Cloudy days														
	1c	7 Rainy days														
	1d	30 days														
	2	Answers will vary.														
124	1	 <table border="1"> <caption>Data for Favourite drinks</caption> <thead> <tr> <th>Favourite drinks</th> <th>Number of children</th> </tr> </thead> <tbody> <tr> <td>Cola</td> <td>7</td> </tr> <tr> <td>Lemonade</td> <td>4</td> </tr> <tr> <td>Apple juice</td> <td>5</td> </tr> <tr> <td>Orange juice</td> <td>2</td> </tr> </tbody> </table>	Favourite drinks	Number of children	Cola	7	Lemonade	4	Apple juice	5	Orange juice	2				
	Favourite drinks	Number of children														
	Cola	7														
	Lemonade	4														
	Apple juice	5														
	Orange juice	2														
1a	Cola															
1b	Orange juice															
1c	21 children															
1d	13 children															
1e	34 children															

Page number	Question number	Answers										
125	1	<p>Cats brought to the Rescue Centre during autumn</p>  <table border="1"> <caption>Data for Bar Chart: Cats brought to the Rescue Centre during autumn</caption> <thead> <tr> <th>Month</th> <th>Number of Cats</th> </tr> </thead> <tbody> <tr> <td>Sept</td> <td>25</td> </tr> <tr> <td>Oct</td> <td>32</td> </tr> <tr> <td>Nov</td> <td>18</td> </tr> <tr> <td>Dec</td> <td>35</td> </tr> </tbody> </table>	Month	Number of Cats	Sept	25	Oct	32	Nov	18	Dec	35
		Month	Number of Cats									
		Sept	25									
		Oct	32									
		Nov	18									
		Dec	35									
		1a	18									
1b	December											
1c	November											
1d	10											
1e	53											
1f	110											