Mathematics
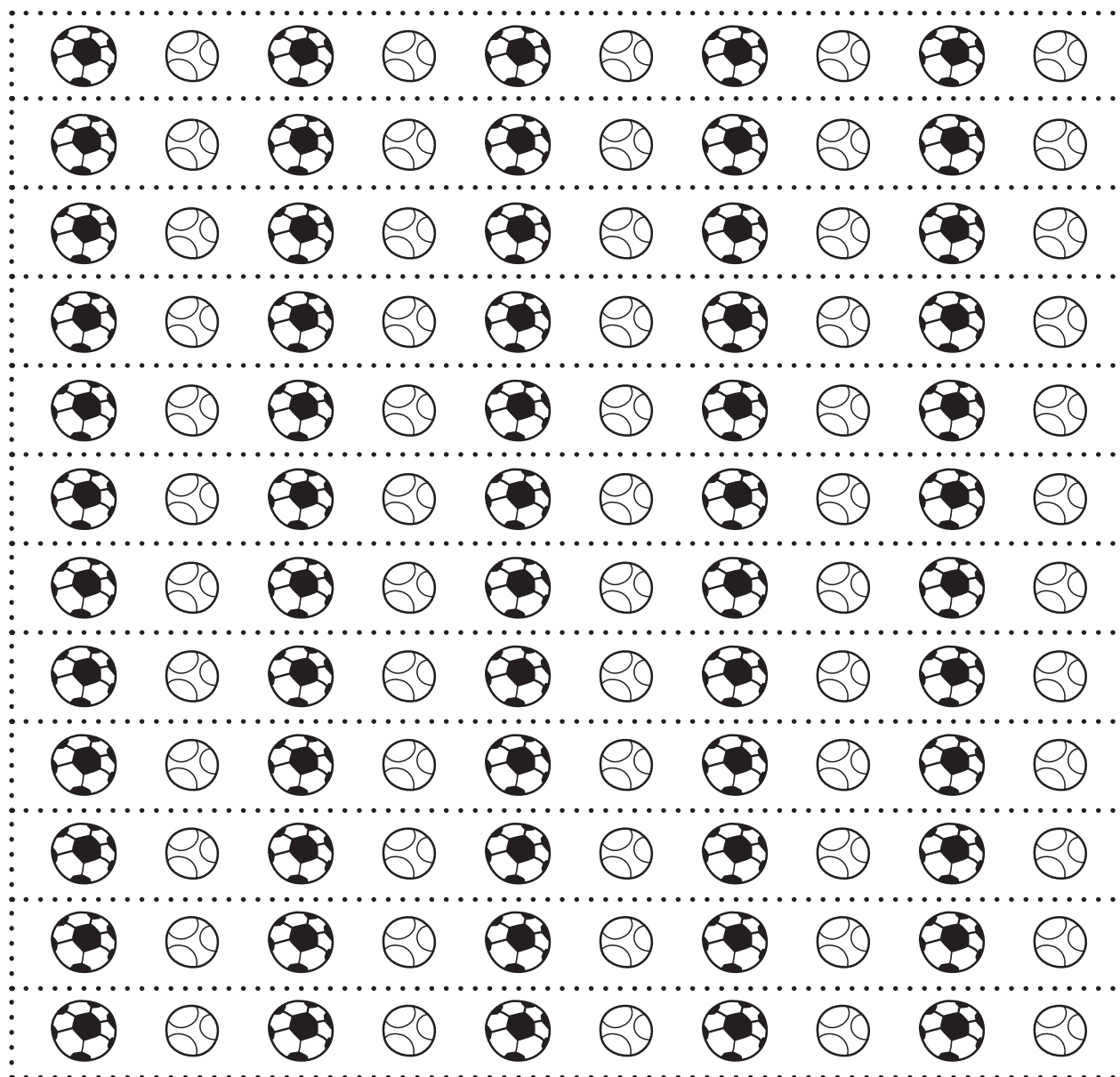
1.   Look at the picture and answer the questions.   **(4)**

1.1   How many balls are there? _____

1.2   How many groups of 4 balls are there? _____

1.3   How many groups of 5 balls are there? _____

1.4   How many groups of 10 balls are there? _____

2. **Fill in the missing numbers in the sequences.** **(2)**

    2.1   152; _____; 154; _____; 156; _____; 158

    2.2   180; _____; 200; _____; 220; _____; 240

3. **Write the number symbols for the number names.** **(3)**

    3.1   one hundred and sixty-four   _____

    3.2   one hundred and sixty   _____

    3.3   ninety-four   _____

4. **Fill in =, > or < to make the statements correct.** **(3)**

    4.1   135 _____ 125

    4.2   167 _____ 187

    4.3   123 _____ 123

5. **Break up the numbers into tens and units.** **(3)**

    Example: $45 = 40 + 5 = 4$ tens $+ 5$ units

    5.1   96 = _____

    5.2   73 = _____

    5.3   12 = _____

6. **Halve the numbers.** **(3)**

6.1 48 _____

6.2 14 _____

6.3 21 _____

7. **Use the number block to find the answers.** **(1)**

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

7.1 Add 11 and 7 _____ 7.2 Then 11 + 7 = _____

8. **Solve the word problem.** **(2)**

Jaco had 18 marbles in his bag. Jody had 24 marbles. How many more marbles did Jody have than Jaco?

Jody had _____ more marbles.

9. **Look at the rectangle and answer the questions.** **(3)**
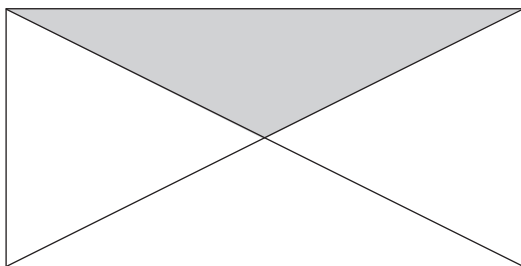
9.1 How many pieces is the rectangle divided into? _____

9.2 What do we call each piece? _____

9.3 What fraction is coloured in? _____

10. Complete the pattern. (3)
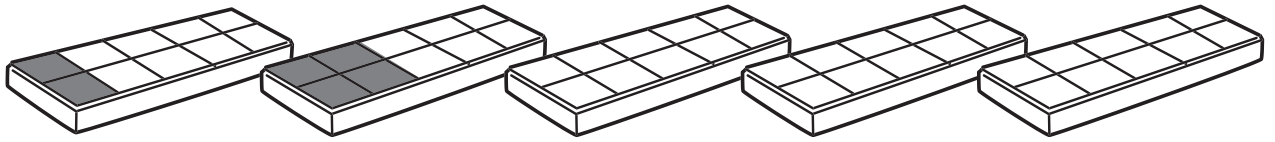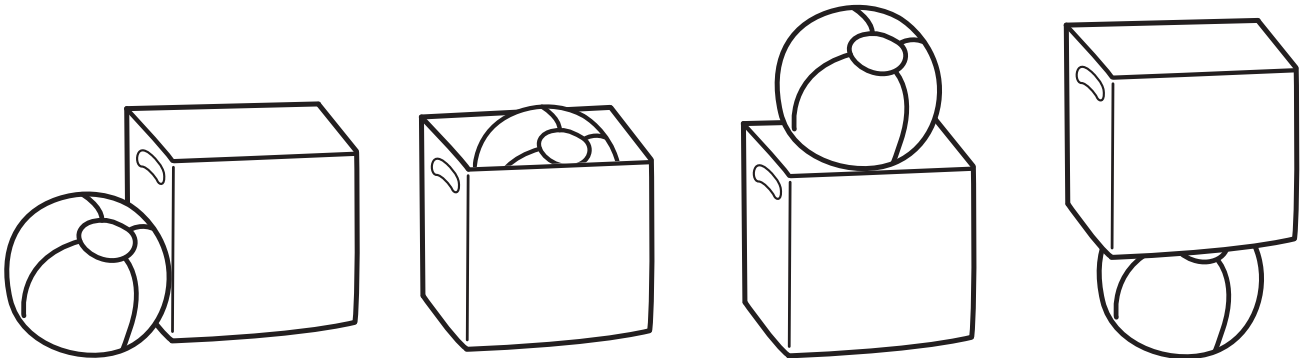

11. What comes next? (1)

12. Where are the balls in relation to the boxes? Choose the correct answers and write them below the pictures. (4)
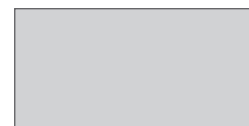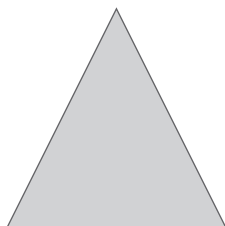
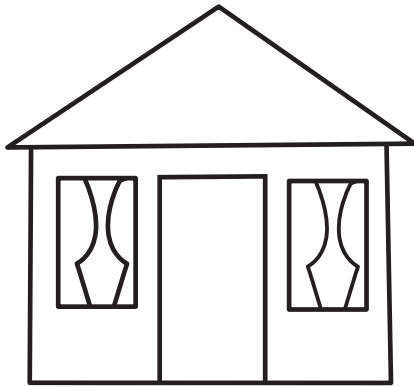| next to	under	inside	on top

_____ _____ _____ _____

13. Name the shapes. (1)

_____ _____

14. **Arrange the units of measure from smallest to largest.**   **(1)**

mm	km	m	cm

_____

15. **Use your ruler to measure the height of the house from floor to roof.**   **(1)**

The house is _____ cm high.

16. **Look at the line lengths below, and complete the sentences.**   **(3)**

Line A _____

Line B _____

Line C _____

Line D _____

16.1   Line _____ is the longest.

16.2   Line _____ is the shortest.

16.3   Line _____ and line _____ are longer than line C.

17. Jody likes to collect bugs. She has had a busy week of bug collecting! Look at the pictograph and answer the questions.   (2)

Key: 🐝 = 1 bug

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
					🐝	
					🐝	
					🐝	🐝
					🐝	🐝
	🐝				🐝	🐝
	🐝		🐝		🐝	🐝
🐝	🐝		🐝		🐝	🐝
🐝	🐝		🐝	🐝	🐝	🐝
🐝	🐝	🐝	🐝	🐝	🐝	🐝

17.1   How many bugs did Jody find on Thursday? _____

17.2   How many bugs did she find on Saturday? _____

17.3   On which day did she find the most bugs? _____

17.4   How many more bugs did she find on Sunday than on Wednesday?

_____

Answers

Mathematics Test 1

1.1 120
1.2 30
1.3 24
1.4 12 (4)
2.1 153; 155; 157
2.2 190; 210; 230 (2)
3.1 164
3.2 160
3.3 94 (3)
4.1 >
4.2 <
4.3 = (3)
5.1 $96 = 90 + 6 = 9$ tens + 6 units
5.2 $73 = 70 + 3 = 7$ tens + 3 units
5.3 $12 = 10 + 2 = 1$ ten + 2 units (3)
6.1 24
6.2 7
6.3 $10\frac{1}{2}$ (3)
7.1 18
7.2 18 (1)
8. 6 (2)
9.1 4
9.2 The answer we are looking for is "a quarter". Your child may say "a triangle", which is not incorrect. If your child gives this answer, just introduce them to the word "quarter" by saying, "Yes, these pieces are triangles and they are also each one quarter of the whole rectangle."
9.3 $\frac{1}{4}$ (3)
10. The third slab should have 6 blocks coloured in. The fourth slab should have 8 blocks coloured in. The fifth slab should have 10 blocks coloured in. (3)
11. (1)
12. next to, inside, on top, under (4)
13. triangle, rectangle $(2 \times \frac{1}{2} = 1)$
14. mm, cm, m, km (1)
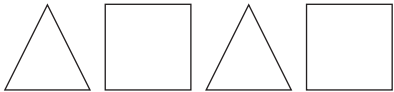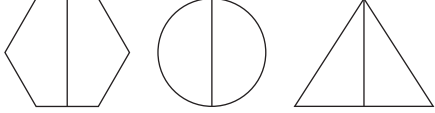15. 5 cm (1)
16.1 D
16.2 B
16.3 A and D (3)
17.1 4
17.2 9
17.3 Saturday
17.4 6 $(4 \times \frac{1}{2} = 2)$

Total: 40

Mathematics Test 2

1.1 62; 66
1.2 130; 125; 115 (2)
2.1 fifty-seven
2.2 one hundred and fifty-nine
2.3 eighty-two
2.4 one hundred and twenty-nine (4)
3.1 67, 97, 122, 134, 156
3.2 36, 63, 68, 133, 166
3.3 15, 50, 55, 105, 115 (3)
4.1 8, 50
4.2 20, 6
4.3 40, 7 (6)

5. (6)

Halve	Number	Double
$12\frac{1}{2}$		50
22		88
34		136

6.1 16
6.2 16 (2)
7.1 5
7.2 84 (2)
8. (1)
9. The first worm is longer. (1)
10.1
10.2
10.3 (3)
11. Note: This is 1 example answer. The hexagon has 6 possible lines of symmetry, the circle has many, many possible lines and the triangle has 3 possible lines. (3)

12. yes (1)
13.1 Your child should colour the largest circle yellow.
13.2 Your child should colour the smallest circle blue. $(2 \times \frac{1}{2} = 1)$
14. 6 o'clock / 6:00, half past four / 4:30, quarter past 6 / 6:15, quarter to eight / 7:45 (4)
15. 3 (1)

Total: 40

Skills tables

Mathematics Test 1

Section of the curriculum	Question number	Level of difficulty	Similar questions	More exercises for extra practice
Numbers, operations and relationships	1	medium	Test 3 Question 1	*Smart-Kids Mathematics* Grade 2 (blue pages)
	2	medium	Test 2 Question 1 Test 3 Question 2 Test 4 Question 2	
	3	easy	Test 2 Question 2 Test 4 Question 3	*Smart-Kids Skills Adding and Subtracting* Grades 1 to 3
	4	medium	Test 2 Question 3 Test 3 Question 4 Test 4 Question 4	
	5	challenging	Test 2 Question 4 Test 3 Question 5 Test 4 Question 5	*Smart-Kids Skills Multiplying and Dividing* Grades 1 to 3
	6	medium to challenging	Test 2 Question 5 Test 3 Question 6 Test 4 Question 6	
	7	challenging	Test 4 Question 7	*Smart-Kids Skills Fractions* Grades 1 to 3
	8	medium to challenging	Test 2 Question 7 Test 3 Question 8 Test 4 Question 8	
	9	medium to challenging	Test 2 Question 7	
Patterns, functions and algebra	10	medium	Test 1 Question 11 Test 2 Questions 8 & 10 Test 3 Questions 9 & 10 Test 4 Question 11	*Smart-Kids Mathematics* Grade 2 (blue pages)
	11	medium	Test 1 Question 10 Test 2 Questions 8 & 10 Test 3 Questions 9 & 10 Test 4 Question 11	
Space and shape	12	easy	Test 4 Question 9	*Smart-Kids Mathematics* Grade 2 (green pages)
	13	medium	Test 3 Question 11 Test 4 Question 12	
Measurement	14	medium to challenging	Test 1 Questions 15 & 16	*Smart-Kids Mathematics* Grade 2 (red pages)
	15	medium	Test 1 Questions 14 & 16	
	16	easy	Test 1 Questions 14 & 15 Test 2 Question 9	
Data handling	17	challenging	Test 2 Question 15 Test 3 Question 18 Test 4 Question 18	*Smart-Kids Mathematics* Grade 2 (yellow pages)