Test 1

Marks: 75   Time: 60 minutes

Section A [38]

1.   Write the numbers in digits.   **(4)**

1.1.   two hundred and thirty-five thousand, six hundred and eleven

_____

1.2.   eight hundred thousand, eight hundred and eighty-eight

_____

1.3.   five hundred and sixty-two thousand, nine hundred and seventy-nine

_____

1.4.   three million, four hundred and ninety thousand, seven hundred and twenty-two

_____

2.   Give the values of the underlined digits.   **(4)**

2.1.   3<u>4</u>7 685   _____

2.2.   <u>8</u>04 967   _____

2.3.   279 <u>8</u>25   _____

2.4.   <u>1</u> 486 397   _____

3.   Think about prime numbers.   **(5)**

3.1.   What is a prime number?

_____

3.2.   What is the only even prime number? _____

3.3.   Find the sum of the first eight prime numbers.

_____

3.4.   List the prime numbers between 15 and 35.

_____

4. **Think about factors.** **(7)**

4.1. List the factors of 24 in factor pairs.

_____

4.2. List the factors of 36 in factor pairs.

_____

4.3. These are the factors of 48. Highlight the prime factors.

1   2   3   4   6   8   12   16   24   48

4.4. Circle the numbers in question 4.3 that are multiples of 4.

5. **Highlight the odd numbers.** **(1)**

248 365   8 744   705 000   16 921

6. **List the numbers in ascending order.** **(2)**

11,011   1,001   011,1   1,11   0,111   0,001   101,101
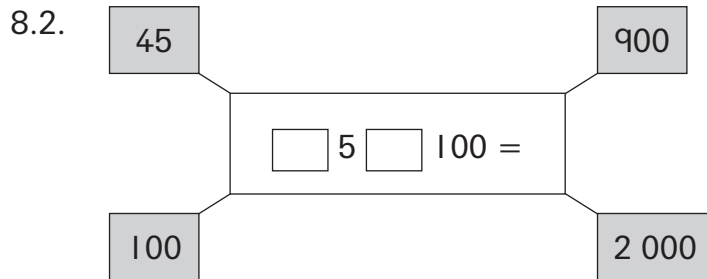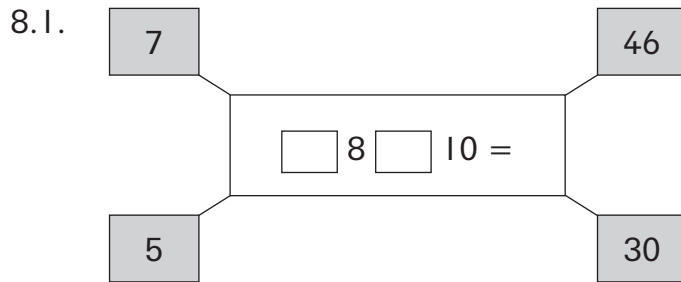
_____

7. **Write the answers as quickly as you can.** **(15)**

$42 \div 7 =$ _____	$7 \times$ _____ $= 56$	$48 \div 4 \times 6 =$ _____
_____ $\times 6 = 54$	$6 \times 6 =$ _____	$54 \div 9 = 30 \div$ _____
$8 \times$ _____ $= 24$	$108 \div$ _____ $= 12$	$121 \div 11 =$ _____
$32 \div$ _____ $= 4$	$72 =$ _____ $\times 9$	$1\ 000 = 100 \times$ _____
$99 = 9 \times$ _____	$5 \times$ _____ $\times 4 = 100$	$72 \div 6 \times 12 =$ _____

Section B [7]

8. Fill in +, −, × or ÷ to complete the rules in the flow diagrams. (2)

8.1.

7	46

$$\square\ 8\ \square\ 10 =$$

5	30

8.2.

45	900

$$\square\ 5\ \square\ 100 =$$

100	2 000

9. Fill in the missing values. (5)

10 ⟶

⟶ ⟶ 11

50 ⟶ $+\ 10 \times \frac{1}{2}$ ⟶
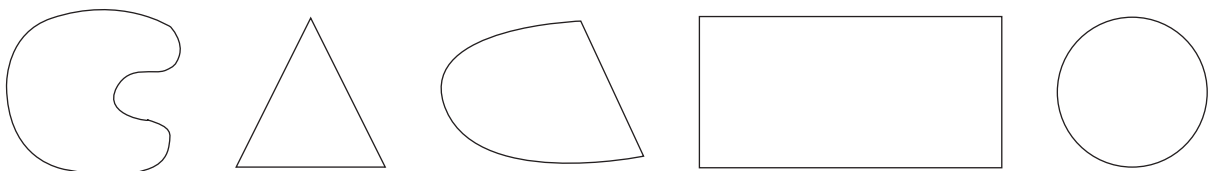
⟶ ⟶ 55

8 ⟶
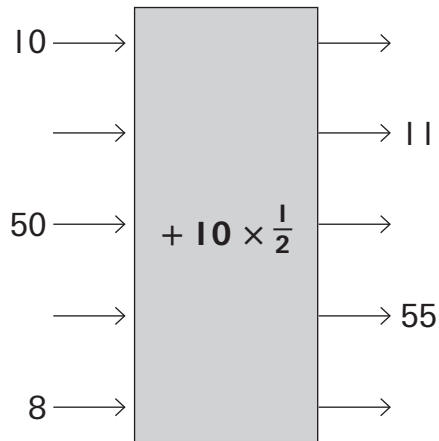
Section C [11]

10. Colour the shapes as indicated. (3)

10.1. Colour the shapes that have only straight sides in blue.

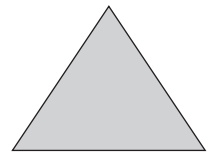10.2. Colour the shapes that have only curved sides in red.

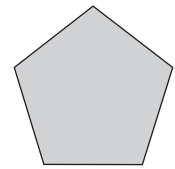10.3. Colour the shapes that have straight and curved sides in green.

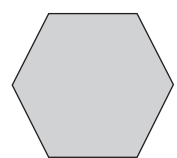**11.** Name the shapes according to the number of sides they have. **(4)**

11.1.

_____

11.2.

_____

11.3.

_____

11.4.

_____
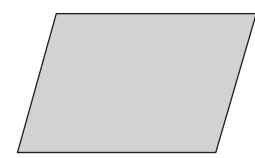
12. Think about shapes. **(4)**

12.1. If you draw a shape that has four right angles, what shape will you draw?

_____

12.2. Draw a shape that has at least two right angles.

12.3. Draw a heptagon.

Section D [12]

13. Write the times as 24-hour times. Include the morning and evening times. **(4)**

13.1.

_____

_____

13.2.

_____

_____

14. Write the times as digital times. **(3)**

14.1. twenty-five past three in the afternoon _____

14.2. quarter to twelve in the evening _____

14.3. twenty-seven minutes later than twenty-five past five in the afternoon _____

15. **Look at the calendar and answer the questions.** (5)

1992

January								February								March						
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S
			1	2	3	4								1		1	2	3	4	5	6	7
5	6	7	8	9	10	11		2	3	4	5	6	7	8		8	9	10	11	12	13	14
12	13	14	15	16	17	18		9	10	11	12	13	14	15		15	16	17	18	19	20	21
19	20	21	22	23	24	25		16	17	18	19	20	21	22		22	23	24	25	26	27	28
26	27	28	29	30	31			23	24	25	26	27	28	29		29	30	31				

April								May								June						
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S
			1	2	3	4							1	2			1	2	3	4	5	6
5	6	7	8	9	10	11		3	4	5	6	7	8	9		7	8	9	10	11	12	13
12	13	14	15	16	17	18		10	11	12	13	14	15	16		14	15	16	17	18	19	20
19	20	21	22	23	24	25		17	18	19	20	21	22	23		21	22	23	24	25	26	27
26	27	28	29	30				24	25	26	27	28	29	30		28	29	30				
								31														

July								August								September						
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S
			1	2	3	4								1				1	2	3	4	5
5	6	7	8	9	10	11		2	3	4	5	6	7	8		6	7	8	9	10	11	12
12	13	14	15	16	17	18		9	10	11	12	13	14	15		13	14	15	16	17	18	19
19	20	21	22	23	24	25		16	17	18	19	20	21	22		20	21	22	23	24	25	26
26	27	28	29	30	31			23	24	25	26	27	28	29		27	28	29	30			
								30	31													

October								November								December						
S	M	T	W	T	F	S		S	M	T	W	T	F	S		S	M	T	W	T	F	S
				1	2	3		1	2	3	4	5	6	7				1	2	3	4	5
4	5	6	7	8	9	10		8	9	10	11	12	13	14		6	7	8	9	10	11	12
11	12	13	14	15	16	17		15	16	17	18	19	20	21		13	14	15	16	17	18	19
18	19	20	21	22	23	24		22	23	24	25	26	27	28		20	21	22	23	24	25	26
25	26	27	28	29	30	31		29	30							27	28	29	30	31		

15.1. Was 1992 a leap year? Explain your answer.

_____

15.2. What was the date one month, one week and five days after your birthday?

_____

15.3. How many days were there from 16 March to 28 May? _____

15.4. Stinky was born on 17 March, but Kurt could only take him home when he was

eight weeks old. When could he take Stinky home? _____

15.5. Complete: Stinky was _____ days old when he went home with Kurt.

Section E [7]

16. **The pictograph shows how many pages Nilah and five friends read during a Readathon. Study it carefully and answer the questions that follow.** (7)

Pages read during the Readathon	Total pages read
Girls:	
Nilah	
Jayda	
Kiara	
Boys:	
Kyle	
Bongani	
Sabiso	

Key:

▬ indicates 8 pages   ▯ indicates 4 pages

16.1. Fill in the total number of pages each child read.

16.2. Did the girls or the boys read more pages? _____

16.3. What is the difference between the most and the least pages read?

_____

16.4. How many pages in total did the children read? _____

16.5. If the children were sponsored 12c per page, how much money did

they collect? _____

Answers

Test 1

Section A [38]

1.1. 235 611 (1)
1.2. 800 888 (1)
1.3. 562 979 (1)
1.4. 3 490 722 (1)
2.1. 40 000 (1)
2.2. 800 000 (1)
2.3. 800 (1)
2.4. 1 000 000 (1)
3.1. A prime number is any number that
has only two factors, namely 1 and itself. (1)
3.2. 2 (1)
3.3. 77 (1)
3.4. 17 19 23 29 31 (2)
4.1. 1, 24 2, 12 3, 8 4, 6 (2)
4.2. 1, 36 2, 18 3, 12 4, 9 6, 6 (2)
4.3. 2 3 (1)
4.4. 4 8 16 24 48 (2)
5. 248 365 16 921 (1)
6. 0,001 0,111 1,001 1,11 11,011
011,1 101,101 (2)

7. (15)

6	8	72
9	36	5
3	9	11
8	8	10
11	5	144

Section B [7]

8.1. × − (1)
8.2. ÷ × (1)
9. (5)
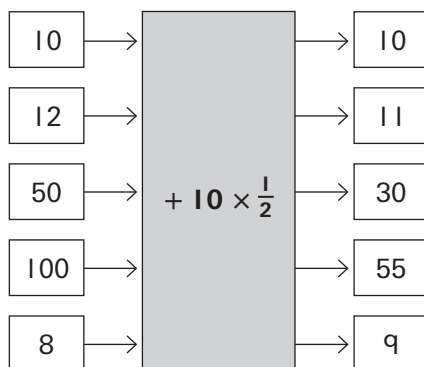
Section C [11]

10.1. Shapes 2 and 4 (1)
10.2. Shapes 1 and 5 (1)
10.3. Shape 3 (1)
11.1. triangle (1)
11.2. pentagon (1)
11.3. hexagon (1)
11.4. quadrilateral (1)
12.1. square or rectangle (1)
12.2. Check that your child has drawn
a shape with at least two right angles. (1)
12.3. Check that your child has drawn
a shape with seven sides. (2)

Section D [12]

13.1. 10:15   22:15 (2)
13.2. 09:40   21:40 (2)
14.1. 15:25 (1)
14.2. 23:45 (1)
14.3. 17:52 (1)
15.1. Yes. 1992 is divisible by 4. February had
29 days. (1)
15.2. Answers will vary. (1)
15.3. 74 days (1)
15.4. 12 May (1)
15.5. 56 days old (1)

Section E [7]

16.1. Nilah   44 (1)
Jayda   100
Kiara   32
Kyle   60
Bongani 88
Sabiso   20
16.2. the girls (2)
16.3. 80 (2)
16.4. 344 (1)
16.5. 4 128 c or R41,28 (1)

Total: 75

Skills tables

Test 1

	Question number	Level of difficulty	Similar questions	More exercises for further practice
Numbers, operations and relationships	1	Easy	Test 6 question 4	*Smart-Kids Mathematics* Grade 6
	2	Easy	Test 6 question 2	
	3	Easy to medium	Test 1 question 4 Test 1 question 5	*Smart-Kids Skills Calculations* Grade 6
	4	Medium	Test 1 question 3 Test 1 question 5	
	5	Easy	Test 1 question 3 Test 1 question 4	
	6	Easy	Test 3 question 4 Test 4 question 6	
	7	Challenging	Test 4 question 1 Test 4 question 3 Test 5 question 3	
Patterns, functions and algebra	8	Medium	Test 1 question 9 Test 4 question 9 Test 5 question 6	*Smart-Kids Mathematics* Grade 6
	9	Medium	Test 1 question 8 Test 4 question 9 Test 5 question 6	*Smart-Kids Skills Calculations* Grade 6
Space and shape (Geometry)	10	Easy	Test 6 question 11 Test 6 question 12	*Smart-Kids Mathematics* Grade 6
	11	Easy to medium	Test 6 question 11 Test 6 question 12	*Smart-Kids Skills Calculations* Grade 6
	12	Medium	Test 2 question 12 Test 3 question 11	
Measurement	13	Medium	Test 1 question 14 Test 6 question 14	*Smart-Kids Mathematics* Grade 6
	14	Medium	Test 1 question 13 Test 6 question 14	*Smart-Kids Skills Calculations* Grade 6
	15	Medium to challenging	Test 4 question 16	
Data handling	16	Medium to challenging	Test 2 question 17 Test 3 question 19 Test 6 question 15	*Smart-Kids Mathematics* Grade 6 *Smart-Kids Skills Calculations* Grade 6

Test 2

	Question number	Level of difficulty	Similar questions	More exercises for further practice
Numbers, operations and relationships	1	Easy	Test 2 question 2	*Smart-Kids Mathematics* Grade 6
	2	Easy to medium	Test 2 question 1	
	3	Easy to medium	Test 5 question 2	*Smart-Kids Skills Calculations* Grade 6
	4	Easy	Test 2 question 7	
	5	Easy	Test 6 question 1	