SPECIMEN

Candidates answer on the question paper.

Time: 30 minutes

Additional Materials:
Geometrical instruments
Tracing paper (optional)

Candidate
Name

Centre
Number

Candidate
Number

INSTRUCTIONS TO CANDIDATES

*   Write your name, centre number and candidate number in the boxes above.
*   Answer **all** the questions.
*   Use blue or black ink. Pencil may be used for graphs and diagrams only.
*   Read each question carefully and make sure you know what you have to do before starting your answer.
*   In many questions marks will be given for a correct method even if the answer is incorrect.
*   Do **not** write in the bar code.
*   Do **not** write outside the box bordering each page.
*   WRITE YOUR ANSWER TO EACH QUESTION IN THE SPACE PROVIDED. ANSWERS WRITTEN ELSEWHERE WILL NOT BE MARKED.

INFORMATION FOR CANDIDATES

*   The number of marks is given in brackets [ ] at the end of each question or part question.
*   The total number of marks for this section is 25.

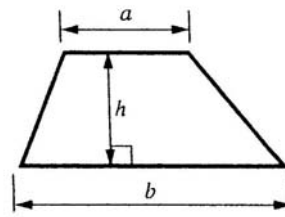**WARNING** You are not allowed to use a calculator in this paper.
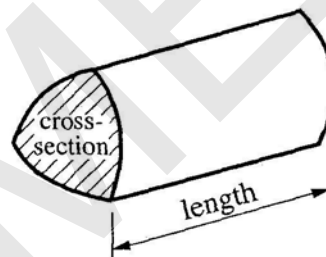
For Examiner's Use

Section A

FORMULAE SHEET

Area of trapezium = $\frac{1}{2}(a+b)\,h$

Volume of prism = (area of cross-section) x length

1 Find the missing numbers.

(a) $36 - \boxed{?} = 20$

(a) _____ [1]

(b) $24 \div \boxed{?} = 4$

(b) _____ [1]

(c) $\boxed{?} + 18 = 26$

(c) _____ [1]

(d) $8 \times \boxed{?} = 40$

(d) _____ [1]

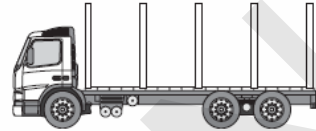**[Turn over**

2 (a) A pencil is 68 mm long.

How many centimetres is 68 mm?
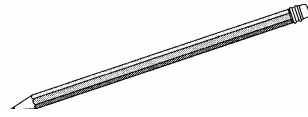
(a) _____ cm [1]

(b) A lorry is 9.3 metres long.

How many centimetres is 9.3 metres?

cm

(b) _____ [1]

2

3 Complete each sentence using two different numbers from the list.
You can use a number in more than one answer.

50	52	54	56	58	60	
49	51	53	55	57	59	61

(a) _____ and _____ are odd numbers. [1]

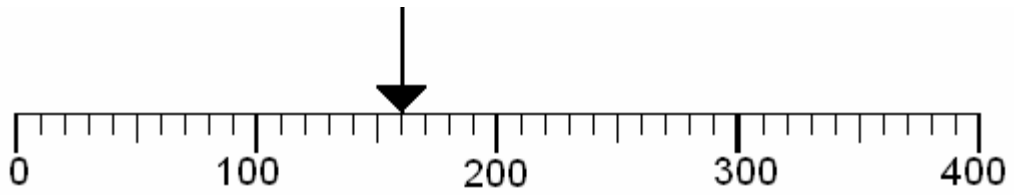**(b)** _____ and _____ are divisible by 5. [1]

(c) _____ and _____ are divisible by 10. [1]

3

4 What number does each arrow point to?

(a)

```
    0        100       200       300       400
```

(a) _____ [1]

(b)
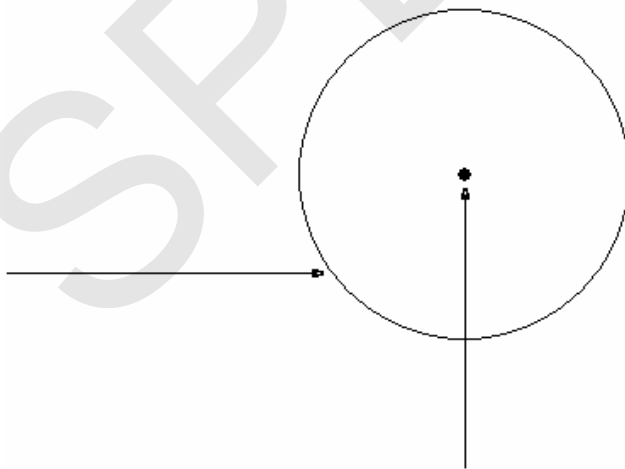
```
           40        50        60
```
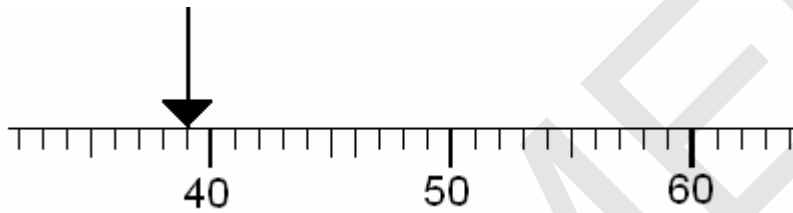
(b) _____ [1]

2

5 Name the parts the arrows point to on the circle below.
Choose from this list.

centre   circumference   diameter   radius

[2]

2

[Turn over

6   Charles is going to Stratford on the Shakespeare Express steam train.

Snow Hill	10 35
Tyseley	10 50
Stratford	11 35

(a)   Charles gets the 10 50 train from Tyseley.
He gets to Stratford at 11 35.

How long does his journey take?

(a) _____ minutes   [1]

(b)   His train back leaves Stratford at 18 05.
The journey from Stratford takes 40 minutes.

At what time does he get back to Tyseley?

(b) _____   [1]

(c)   Charles buys two adult tickets for £15 each and four child tickets for £5 each.

How much do the tickets cost altogether?

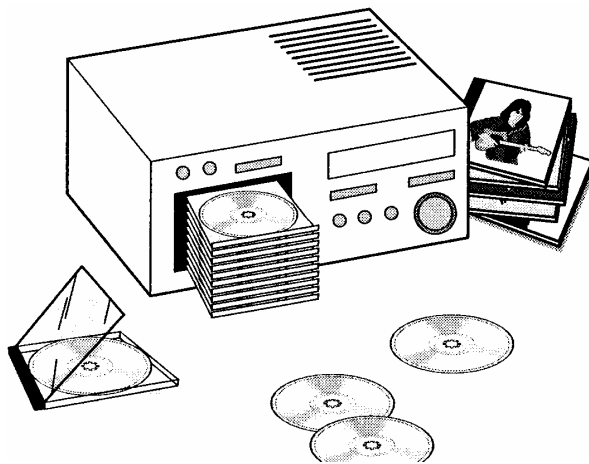**(c)** £ _____   [3]

(d)   The train leaves Snow Hill at 10 35 and gets to Stratford at 11 35.
Coming back, the train leaves Stratford at 18 05 and gets to Snow Hill at 18 55.

Which journey takes less time, and by how many minutes?

The train journey
that leaves _____ is shorter by _____ minutes.   [2]

7

Sara's CD player holds 10 CDs.

She loads these CDs: **5** rock CDs
                            2 dance CDs
                            3 rap CDs

The player selects the CDs at random.

(a)

likely	evens	impossible
	certain	unlikely

Choose the best word to complete each of these sentences.

It is _____ that the first CD will be rock.   [1]

It is _____ that the first CD will be rap.   [1]

(b)   Complete this sentence.

The first CD is more likely to be rap than _____   [1]

3

[Turn over

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8

20 ÷ 45 – × 4 + 25 35
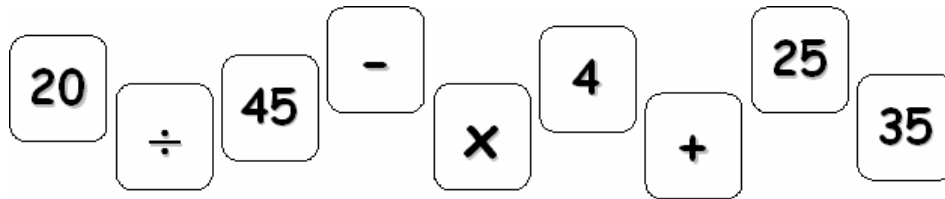
Use these cards to complete the following.

Each card may be used in more than one answer.

(a) [ ] [ ] [ ] = 70

[1]

(b) [ ] [ ] [ ] = 5

[1]

Section A Total [25]

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

General Certificate of Secondary Education

MATHEMATICS C   B271/A

MODULE M1 – SECTION A

Specimen Mark Scheme

The maximum mark for this paper is 25.

1	a)	16	W1			
	b)	6	W1			
	c)	8	W1			
	d)	5	W1			
			4			
2	b)	6.8	W1			
	c)	730	W1			accept 7 m 30 cm soi
			2			
3	a)	Any 2 of the odd numbers	W1			both
	b)	50, 55, 60	W1			any two of the three
	c)	50, 60	W1			both – if total 0 scored, **SC2** for only 1 given in each
			3			
4	a)	160	W1			
	b)	39	W1			
			2			
5		correctly indicated circumference and centre	1 1 2			
6	a)	45	W1			accept equivalent times throughout
	b)	18 45	W1			
	c)	50	W3		M1	2 x 15 (=30) oe
					M1	4 x 5 (=20) oe
					or	correct addition of *their* 30, *their* 20
	d)	Stratford (accept 1805); 10	W2		W1	60 *or* 50 seen
			7			

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7	a)	evens	W1			
		impossible	W1			
	b)	Dance	W1			
			2			
8	a)	25 + 45	W1			accept reversed *or* 35 + 35
	b)	25 − 5	W1			accept (b), (c) reversed
			2			
		Total for Section A	**25**			

4

Assessment Objectives Grid

Question	AO2	AO3	AO4	Total
1	4			4
2		2		2
3	3			3
4		2		2
5		2		2
6	7			7
7			3	3
8	2			2
Totals	16	6	3	25