Cambridge Primary Checkpoint

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Primary Checkpoint

CANDIDATE NAME

CENTRE NUMBER

CANDIDATE NUMBER

MATHEMATICS

Paper 2

0845/02

October 2012

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen
Pencil
Ruler

Protractor

Calculator

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the spaces at the top of this page.
Write in dark blue or black pen.

DO **NOT** WRITE IN ANY BARCODES.

Answer **all** questions.

The number of marks is given in brackets [ ] at the end of each question or part question.
You should show all your working in the booklet.
The total number of marks for this paper is 40.

For Examiner's Use	
1	
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16	
Total	

This document consists of **16** printed pages.

UNIVERSITY *of* CAMBRIDGE
International Examinations

[Turn over

1 Here are five number cards.

A	Fifty-six

B	Six thousand, five hundred and fifty-five

C	Six thousand, five hundred and fifty

D	Sixty-five

E	Six thousand, five hundred and five

Write the letter of the card that is the answer to

(a) $650 \div 10 =$

.... [1]

(b) $655 \times 10 =$

.... [1]

2   Write each of these numbers in the correct place on the grid.

13   42   25

	Less than 20	Greater than 20
even		
odd		

[1]

3   Tina has these three cards.

4   5   6

Use each card **once** to make the largest possible number that will divide by 5 exactly.

[1]

4   Anton is thinking of a number.

He says

> If I subtract 17 from the number the answer is 94.

What number is Anton thinking of?

.... [1]

5   John spins the arrow on the spinner one whole turn.
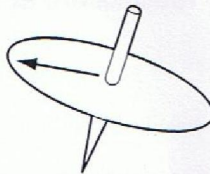
How many degrees does the arrow turn?

....° [1]

6 (a) Sunilla counts the number of men, women and children attending a concert.

The pictogram shows some of her results.

Women	♀ ♀ ♀ ♀ ♀ ♀
Men	♀ ♀ ♀ ♀
Children	

Key: ♀ represents 20 people

She counts 90 children.

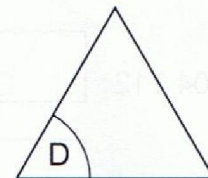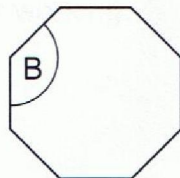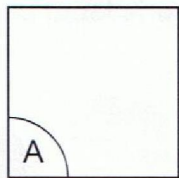Complete the pictogram.   [1]

(b) Why would it **not** be a good idea for Sunilla to draw her pictogram using a scale of one symbol to represent 2 people?

....

.... [1]

7 Here is a set of regular polygons.

List the angles in size order, starting with the smallest.

A (square)   B (octagon)   C (hexagon)   D (triangle)

....
smallest   **largest**

[1]

8   Work out

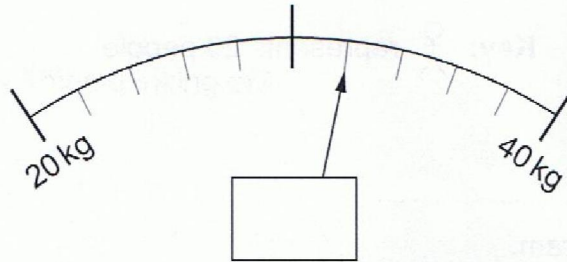$$16 \times (12 + 5)$$

....   [1]

9   Write the number in the box that is shown by the arrow.

[1]

10   Here are two signs.

<   >

Choose the correct sign to put in each box.

8 0480   [   ]   8048

804 712   [   ]   840 480
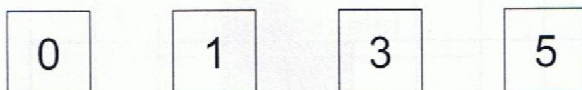
996 157   [   ]   804 800   [1]

11 Write a numerator in the box to make the fractions equivalent.

$$\frac{1}{4} = \frac{\boxed{}}{8}$$
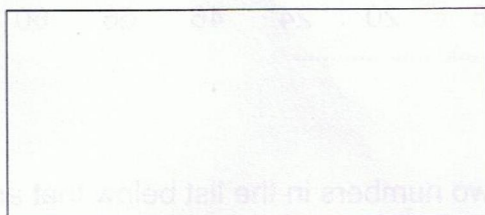
[1]

12 Here are four digit cards.

| 0 | 1 | 3 | 5 |

Use these cards to complete this calculation. Each card must only be used once.

☐☐ × ☐☐ = 450

[1]

13 Calculate the perimeter of this rectangle.
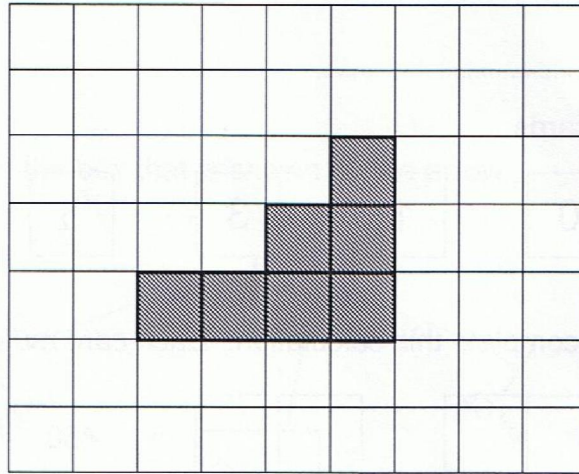
You must show your working.

.... cm [2]

14 Shade **one** more square on the grid so that the shaded shape has one line of symmetry.

[1]

15 (a) Put a ring around **all** the numbers in the list below that are multiples of 8

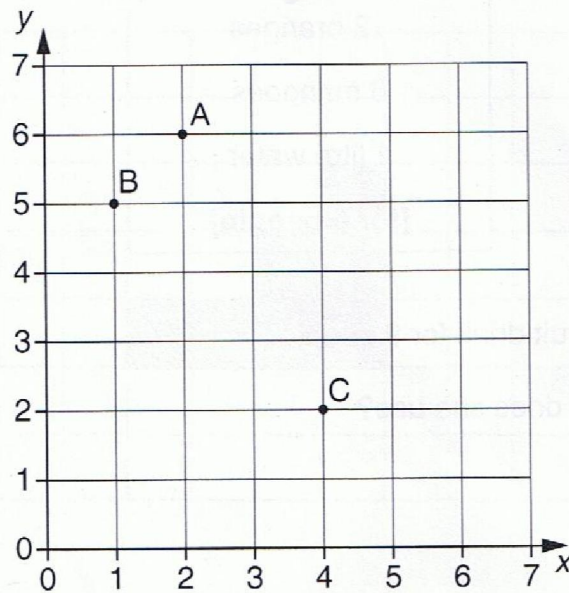2   4   8   20   24   46   56   60   [1]

(b) Put a ring around two numbers in the list below that are multiples of both 4 **and** 6

12   16   20   32   36   42   [1]

16   Here is a recipe for a fruit drink for 6 people.

> 2 pineapples
>
> 12 oranges
>
> 6 mangoes
>
> 1 litre water
>
> **[for 6 people]**

Kirsty is making a fruit drink for 9 people.

How many oranges does she use?

.... [2]

17   The time in Lahore, Pakistan, is 5 hours ahead of London, England.
If it is 11 am in London, what time is it in Lahore?

.... [1]

18 Three points A, B and C are marked on a grid.

(a) What are the coordinates of point B?

(..................... , ...)   [1]

(b) A, B and C are three of the vertices of a rectangle. What are the coordinates of the fourth vertex?

(..................... , ...)   [1]

19 The distance between two towns is 50 miles.

Tick (✓) the best approximation of 50 miles in kilometres.

8 kilometres ☐

30 kilometres ☐

80 kilometres ☐

200 kilometres ☐

500 kilometres ☐ [1]

20 A model of a car is one tenth of the size of the real car.
The model measures 42 cm long.

What is the length of the real car?
Give your answer in centimetres.

← 42 cm →

.... cm [1]

21 Write the missing number.

$$\frac{1}{3} \ + \ \boxed{\dfrac{}{}} \ = \ 1$$
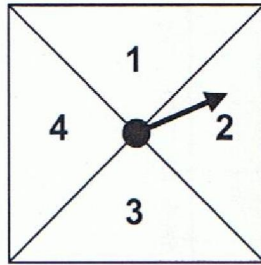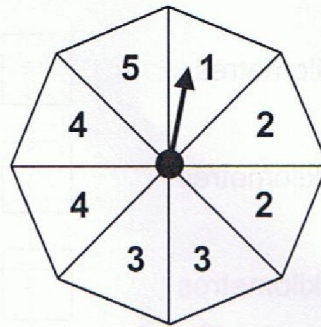
[1]

22 Dave has a choice of two fair spinners.
Each spinner is divided into equal sized sections.

Spinner A   Spinner B

Which spinner has the highest probability of landing on the number 2?
Tick (✓) the correct answer.

Spinner A ☐

Spinner B ☐

Both have the same probability ☐

Explain your answer.

.... [1]

23 Maria has a bag of sweets.
    She eats 3 yellow sweets for every 5 red sweets.
    She eats 20 red sweets.

    How many yellow sweets does she eat?

    .... yellow sweets   [1]

24 The numbers in this sequence increase by the same amount each time.
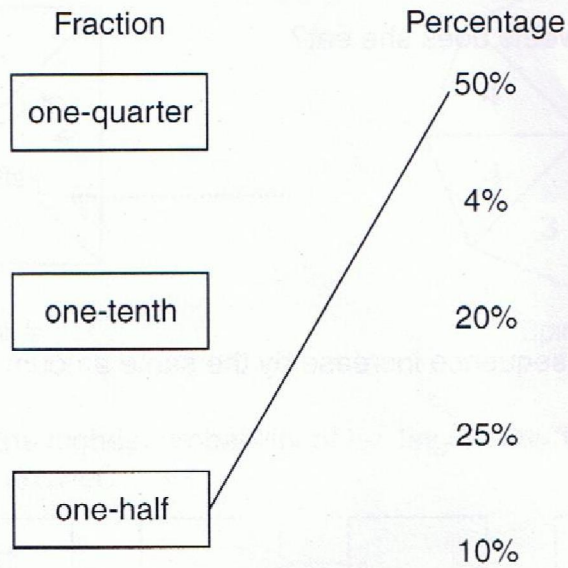
    Write in the missing numbers.

1			19

                                                      [2]

25 Draw a line to join each fraction to a percentage of the same value.

One has been done for you.

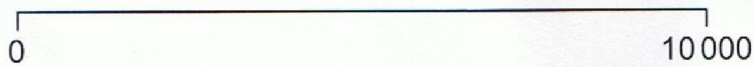| Fraction	Percentage
one-quarter	50%
	4%
one-tenth	20%
	25%
one-half	10%

[2]

26 Put a ring around the decimals which are bigger than 0.7

    0.08   0.81   0.67   0.9   0.73   [1]

27 Mark with an arrow (↑) the position of the number 3400 on the scale.

0   10 000   [1]

28 A school has 120 children.

$\dfrac{3}{10}$ of the children have school dinners.

(a) How many children have school dinners?

.... [1]

(b) $\dfrac{1}{6}$ of the children who have school dinners have the vegetarian option.

How many children have the vegetarian option?

.... [1]

29 A teacher asks students to work out $66 \div 5$

Tick (✓) all of these answers that are correct.

13 remainder 1 ☐

13.1 ☐

$13\dfrac{1}{5}$ ☐

[1]

30 Mark asks 8 friends how many pets they have.
His results are shown in the table.

Child	Number of pets
Alice	2
Barbara	1
Claire	1
Darren	5
Elliot	3
Flynn	1
Georgina	2
Harry	1

(a) Find the range of the number of pets.

.... pets [1]

(b) Find the mean number of pets.

.... pets [1]