



UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge International Primary Achievement Test

CANDIDATE
NAME

CENTRE
NUMBER

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CANDIDATE
NUMBER

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MATHEMATICS

0842/01

Paper 1

May/June 2007

45 minutes

Candidates answer on the Question Paper.

Additional Materials: Pen Protractor
 Pencil
 Ruler

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.

Calculators are **not** allowed.

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.

For Examiner's Use	
Pages	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
Total	

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



1 Write this number in words.

1013

..... [1]

2 Here is a number.

749

Match the digits to their values.

7

4

9

units

hundreds

tens

[1]

3 Petra has 42 shells in her collection.

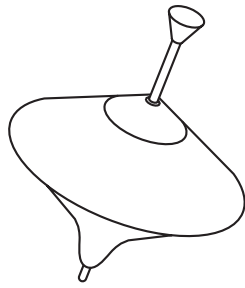
She gives half of them to her friend Claire.

How many shells does Claire get?

..... [1]

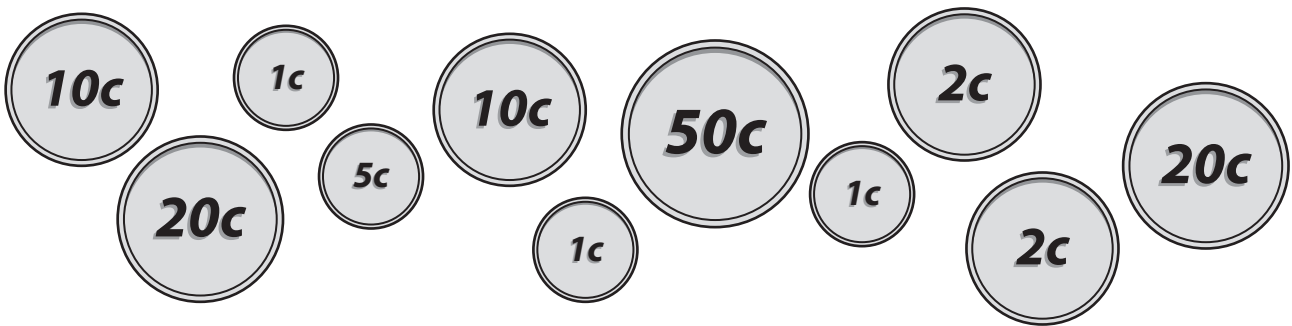
Page Total

4 Sourav buys a spinning top.



It costs 48 cents.

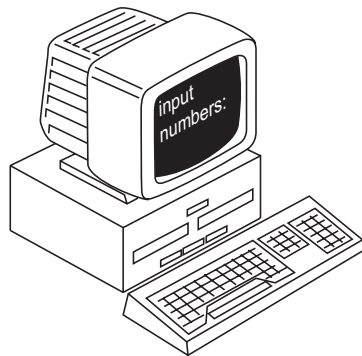
He has the coins shown.



Underline the coins he could use to pay for the top without needing change.

[1]

5 Jacob writes a computer program that multiplies numbers by 3 then adds 2.



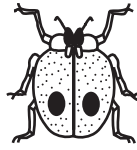
Jacob puts in 4.

What number comes out of the program?

..... [1]

Page Total

6 Maya counts beetles with different numbers of spots.



She finds these beetles:

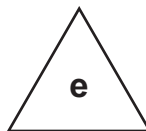
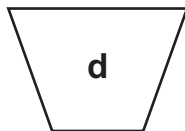
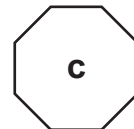
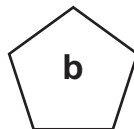
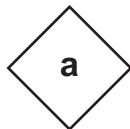
3 spots, 5 spots, 7 spots, 3 spots, 3 spots, 5 spots, 3 spots, 5 spots, 3 spots, 7 spots, 3 spots

She enters the results into a frequency table.
Complete her table.

Number of spots	Frequency
3 spots	
	3
7 spots	2

[2]

7 One of these shapes has 4 lines of symmetry.



Which shape is it?

..... [1]

Page Total

8 (a) Write the next **two** numbers in this sequence.

23 18 13 8

[1]

(b) Write these numbers in order, starting with the largest.

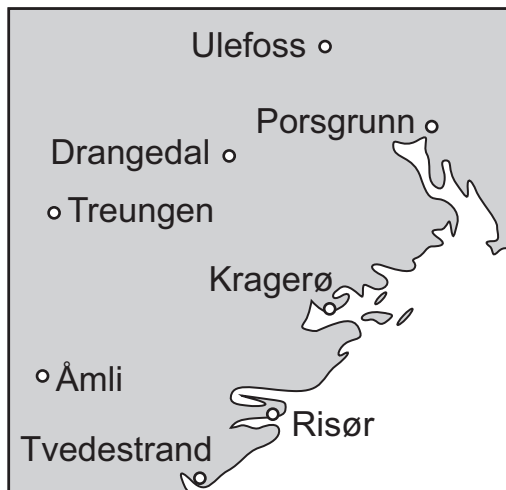
5.01 51 501 5.1 0.51

.....

largest smallest

[1]

9 Here is a map of part of Norway.

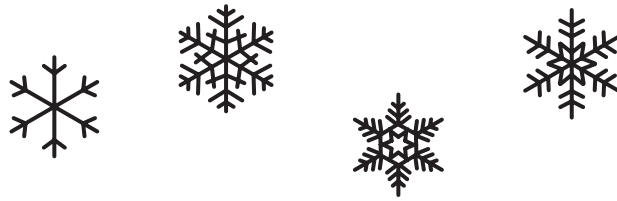


Starting from Åmli, in which direction is Treungen?

..... [1]

Page Total

10 Sven watches snow falling.



The snow starts falling at 10.45 am and stops falling at 12.15 pm.

How long does the snowfall last?

..... [1]

11 What number is 8 tens less than 9842?

..... [1]

12 Complete these **two** calculations.

(a)

$$\begin{array}{r} 843 \\ 397 - \\ \hline \end{array}$$

[1]

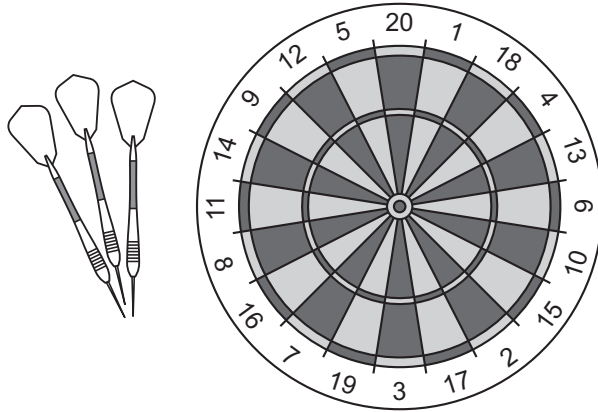
(b)

$$\begin{array}{r} 503 \\ 297 \\ 412 + \\ \hline \end{array}$$

[1]

Page Total

13 Ranji pays a game of darts.



Three darts are thrown at the board.

The scores for each dart are added together and the total is **subtracted** from the player's total score.

Each player starts at 501 and the winner is the first to reach zero.

In Ranjit's first go, he scores 19, double 7 and triple 3 with his three darts.

What is his new total score?

Show your working.

Starting score = 501

New total score = [2]

Page Total

14 Aamir says “a triangle can never have two right angles.”

(a) Is he correct?

Yes

No

[1]

(b) Explain your answer.

.....

.....

.....

.....

[1]

15 Mylene collects some data about the colour of babies' eyes.
She enters her data in a tally chart.

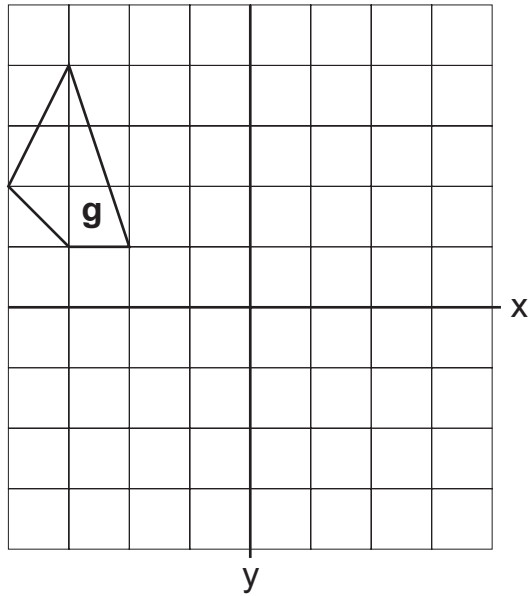
Eye colour	Number
blue	
green	
brown	
hazel	
grey	

How many more babies have hazel eyes than green eyes?

..... [1]

Page Total

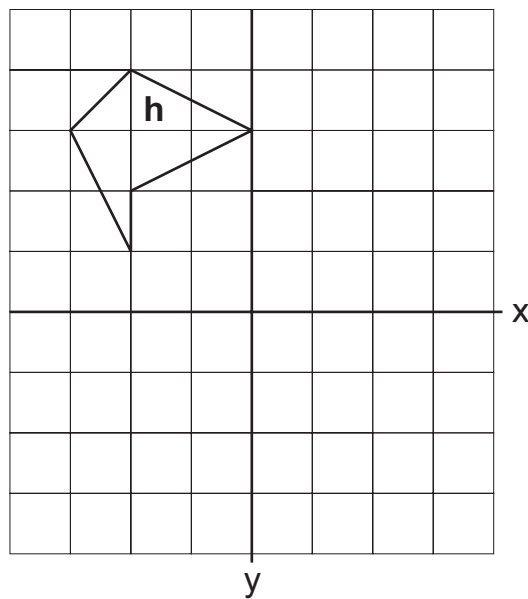
- 16 (a) Reflect shape **g** in the mirror line labelled **x**.
Label the new shape **G**.



[1]



- (b) Reflect shape **h** in the mirror line labelled **y**.
Label this new shape **H**.



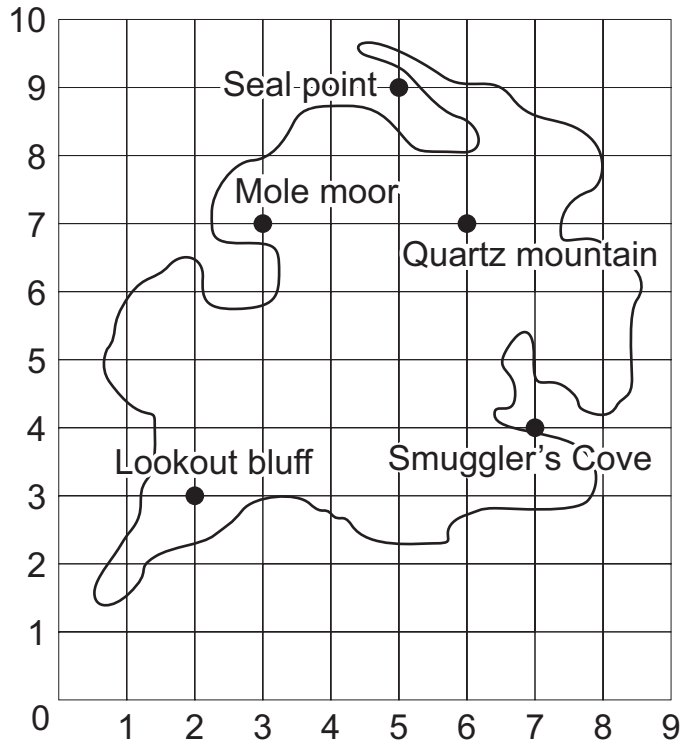
[1]



Page Total



17 Here is a map.

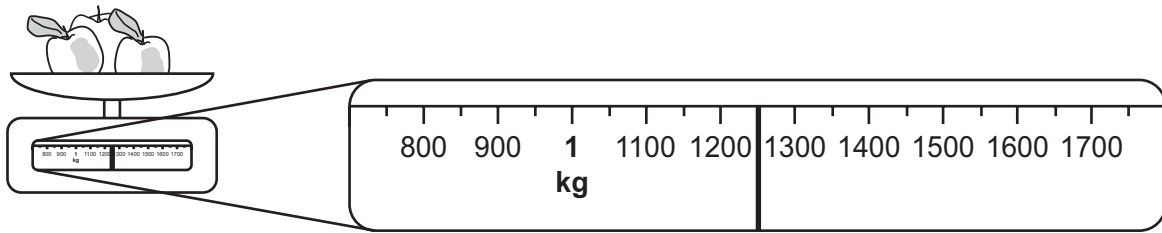


Give the co-ordinates of Smuggler's Cove.

(..... ,) [1]

Page Total

18 Kara weighs 3 apples on her scales.



How much do the apples weigh?

..... g [1]

19 (a) Here is a fraction.

$$\frac{13}{4}$$

Write this fraction as a mixed number.

..... [1]

(b) Here are some more fractions.

$$\frac{3}{4} \quad \frac{4}{10} \quad \frac{2}{6} \quad \frac{8}{12} \quad \frac{3}{9}$$

Underline **two** fractions that are equivalent.

[1]

20 548 boxes each contain 72 packets of breakfast cereal.

How many packets of cereal are there altogether?

..... [1]

Page Total

21 Alisha writes the following calculation in her book.

$$13 \times 3 + 6 \times 2 = 90$$

She forgets to put in the brackets.

Put in the brackets so that the calculation is correct.

[1]

22 Explain the formula $y = 3x + 2$ in your own words.

.....

.....

.....

.....

[1]

Page Total

23 (a) Match these events to show how likely they are to occur.

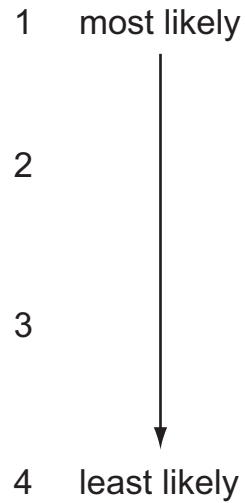
1 is the **most** likely.
4 is the **least** likely.

New Zealand disappears into the sea in 2007.

A dice lands on a number larger than 2.

There is a thunderstorm somewhere in the world next year.

A dice lands on an even number.



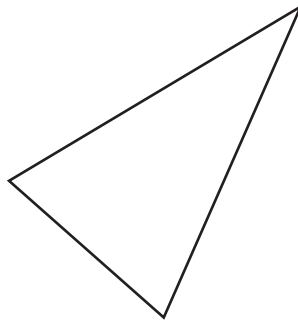
[1]

(b) What is the chance of a tossed coin landing on heads?

..... [1]

Page Total

24 Here is a triangle.



Describe this triangle so that a friend could guess what type of triangle it is.

.....
.....
.....

[1]



25 Draw a straight line from point A.

It must be 136° from line AB.



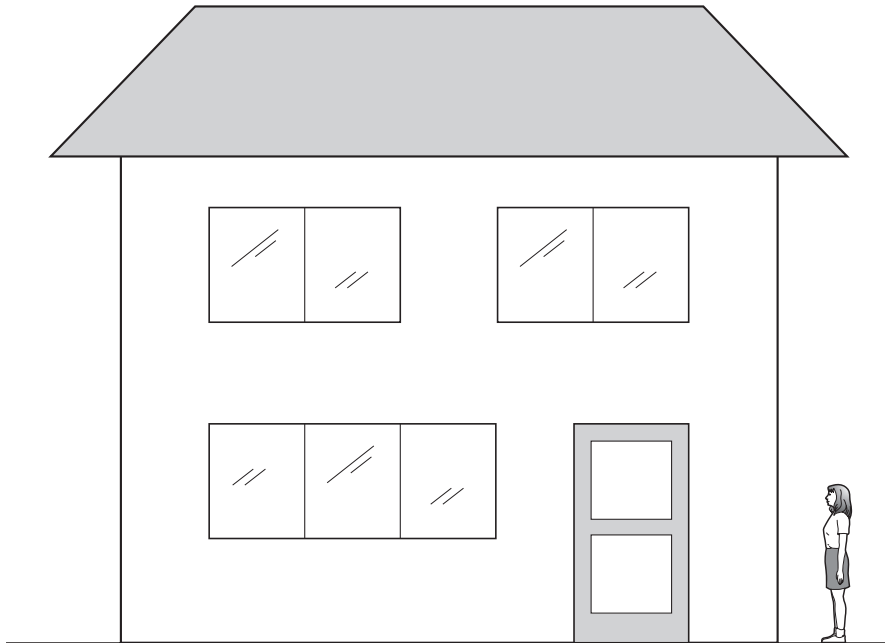
[1]



Page Total



26 Laura estimates the height of her house.



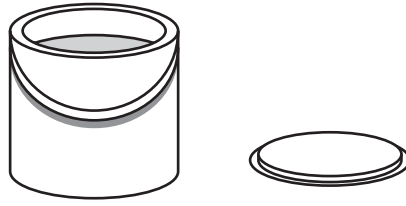
Circle the estimate that is the most accurate.

- A 2.4 m
- B 4.5 m
- C 6.4 m
- D 12.2 m
- E 16.8 m

[1]

Page Total

27 Rezza makes orange paint by mixing red and yellow.



He uses red to yellow in the ratio 3 : 7

Rezza needs 5 litres of orange paint.

(a) How much red paint does he need?

..... litres [1]

(b) How much yellow paint does he need?

..... litres [1]

28 What is $\frac{2}{3}$ of 216?

..... [1]

29 Mrs Tai sent a gift of \$75 to each of 26 hospitals.

How much money did she give in total?

\$ [1]

30 At 11.30 am the temperature in Rio was 27 °C.

At 3.30 pm it had risen by exactly 10%.

What was the temperature at 3.30 pm?

..... °C [1]

Page Total

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