



**Cambridge  
Checkpoint**

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS  
Cambridge Checkpoint

CANDIDATE  
NAME

CENTRE  
NUMBER

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CANDIDATE  
NUMBER

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**MATHEMATICS**

Paper 1

**1112/01**

**April 2012**

**60 minutes**

Candidates answer on the Question Paper.

Additional Materials: Geometrical Instruments  
Tracing paper

**READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

You may use a soft pencil for any diagrams, graphs or rough working.

Do not use staples, paper clips, highlighters, glue or correction fluid.

**DO NOT WRITE IN ANY BARCODES.**

Answer all questions.

**NO CALCULATOR ALLOWED.**

You should show all your working in the booklet.

The number of marks is given in brackets [ ] at the end of each question or part question.

The total number of marks for this paper is 50.

**For Examiner's Use**

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Total	

This document consists of 13 printed pages and 3 blank pages.







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- 2 (a) At 10 pm the temperature is  $2^{\circ}\text{C}$ .  
At midnight the temperature has fallen by  $3^{\circ}\text{C}$ .

What is the temperature at midnight?

.....  $^{\circ}\text{C}$  [1]

- (b) The temperature in a freezer is  $-15^{\circ}\text{C}$ .  
The temperature in the freezer increases by  $3^{\circ}\text{C}$ .

Work out the temperature in the freezer now.

.....  $^{\circ}\text{C}$  [1]

- 3 A recipe lists the ingredients needed to make 24 cakes.

100 g	Flour
50 g	Margarine
50 g	Sugar
1	Egg

- (a) Joanna makes 48 cakes.

Work out how much flour she needs.

..... g [1]

- (b) Luca has 7 eggs and plenty of the other ingredients.

Work out the maximum number of cakes he can make.

..... cakes [1]







7 Tido is shopping at a furniture store.

- (a) He has \$360 to spend.  
He buys a table for \$204.99

Work out how much money he has left after buying the table.

\$ ..... [1]

- (b) Work out the cost of 4 mirrors at \$35.99 each.

\$ ..... [1]

- (c) A bed costs \$560.  
The price is reduced by 25% in a sale.

Work out the **sale price** of the bed.

\$ ..... [2]

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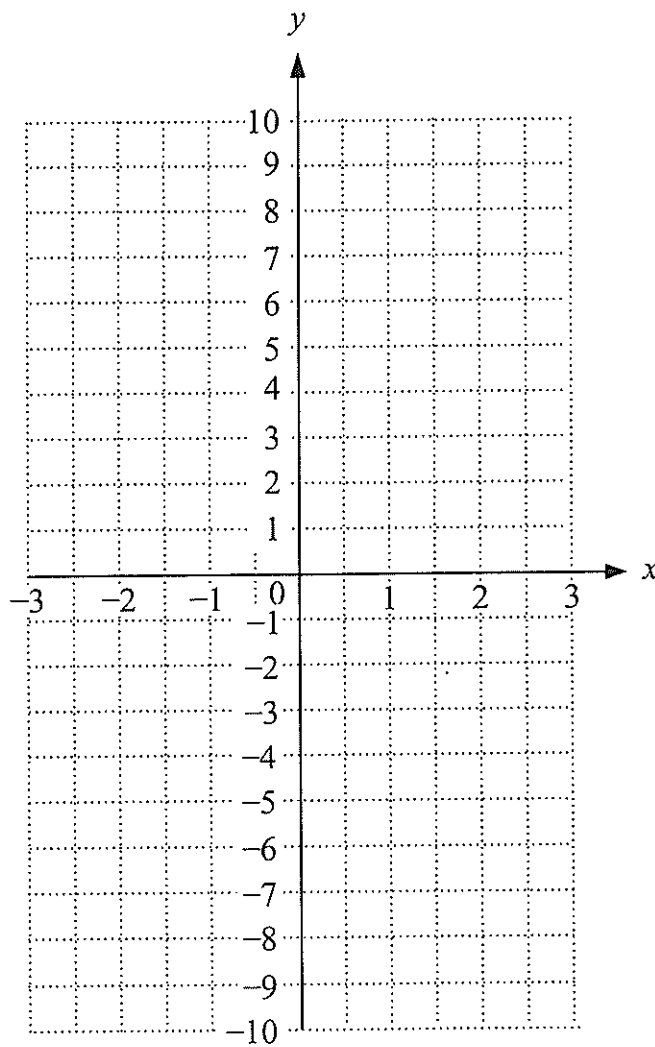
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8 (a) Complete this table of values for the graph  $y = -4x - 2$

$x$	-2	-1	0	1	2
$y$	6	2		-6	

[1]

(b) Use your table of values to draw the graph of  $y = -4x - 2$



[1]





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9 Complete the following statements.

(a) 0.75 m = ..... cm [1]

(b) 1.357 kg = ..... g [1]

(c) 4000 kg = ..... tonnes [1]

(d) 2.5 m<sup>2</sup> = ..... cm<sup>2</sup> [1]

10 Complete this table of equivalent fractions, decimals and percentages.

The first row is done for you.

Fraction	Decimal	Percentage
$\frac{3}{8}$	0.375	37.5 %
		43 %
	0.09	

[2]

11 Work out

(a) 2.59 × 0.4  
..... [1]

(b) 44.4 ÷ 1.2  
..... [1]

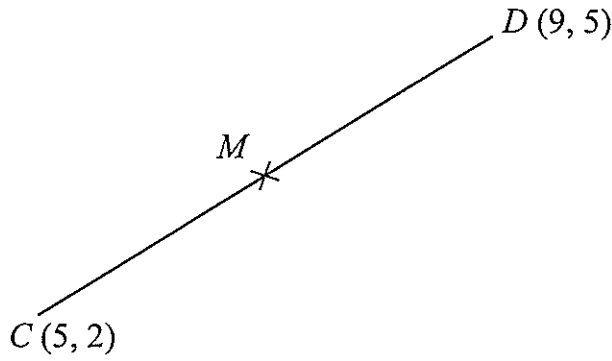








13 Chaz draws a line  $CD$ .



Point  $C$  has the co-ordinates  $(5, 2)$ .  
 Point  $D$  has the co-ordinates  $(9, 5)$ .  
 Point  $M$  is the midpoint of the line  $CD$ .

Work out the co-ordinates of the point  $M$ .

$M = ( \dots\dots\dots , \dots\dots\dots )$  [2]

14 (a) Write down all the factors of 18

..... [1]

(b) Write 54 as a product of its prime factors.

..... [2]



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