

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
Cambridge Checkpoint
Pretest

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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MATHEMATICS

Pretest 1112/05

Paper 5

April/May 2010

1 hour

Candidates answer on the Question Paper

Additional Materials: Geometrical Instruments

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 pencil for any diagrams or graphs.

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

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

NO CALCULATORS 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 47.

This document consists of 10 printed pages and 2 blank pages.



1 Sunil buys a DVD player with a 24-hour clock.

(a) He sets the DVD clock at 8:30 pm.

Write this time using the 24-hour clock.

..... [1]

(b) Sunil watches a film.

(i) When the film starts the clock shows 19:48.

Write this time using the 12-hour clock.

..... [1]

(ii) When the film ends the clock shows 21:26.

Work out the length of the film.

..... hours minutes [1]

(c) Sunil goes to bed 45 minutes after the film ends.

Write down the time he goes to bed.

..... [1]

2 Complete the following sentences.

(a) 1.423 litres = millilitres [1]

(b) 142.6 centimetres = metres [1]

(c) 246.8 milligrams = grams [1]

(d) 1 tonne = kilograms [1]

(e) $\frac{1}{2}$ square metre = square centimetres [1]

3 Use the symbols $=$, $>$ or $<$ to make the following statements correct.

(a) 12 19 [1]

(b) 27 18 [1]

(c) $5 + (3 \times 5)$ $(3 + 2) \times 4$ [1]

4 (a) Ama runs 200 metres in 25 seconds.
Work out her speed in metres per second.

..... m/s [1]

(b) Akua walks to school each day.

He walks 5km in $1\frac{1}{4}$ hours.

Work out his speed in kilometres per hour.

..... km/h [2]

(c) Shaka runs at a speed of 15 kilometres per hour.

Work out how long it takes him to run 1 kilometre.
Give your answer in minutes.

..... minutes [2]

- 5 A letter from the word CHECKPOINT is chosen at random.
Write down the probability of

(a) choosing a letter T,

..... [1]

(b) choosing either a letter N or a letter H,

..... [1]

(c) not choosing a letter C,

..... [1]

(d) choosing a letter S.

..... [1]

6 There are 560 students in a school.

(a) 224 of the students are girls.

What fraction of the students are girls?
Give your answer in its simplest form.

..... [2]

(b) 20% of the students speak French.

Work out how many students speak French.

..... [2]

(c) 168 students speak French and German.

What percentage of the students speak French and German?

..... % [2]

- 7 (a) Two sisters share some sweets.
Mira receives four times as many as Farah.

Write this information as a ratio.

..... [1]

- (b) Three brothers share \$100 in the ratio of their ages.
John is nine, Koffi is six and Gary is five years old.

Work out how much Koffi receives.

\$ [2]

- (c) Two friends share some money in the ratio 5 : 4.
The smaller share is \$200.

Work out the total amount of money they share.

\$ [2]

- 8 (a) The three angles of a triangle are $2x^\circ$, $3x^\circ$ and $5x^\circ$.

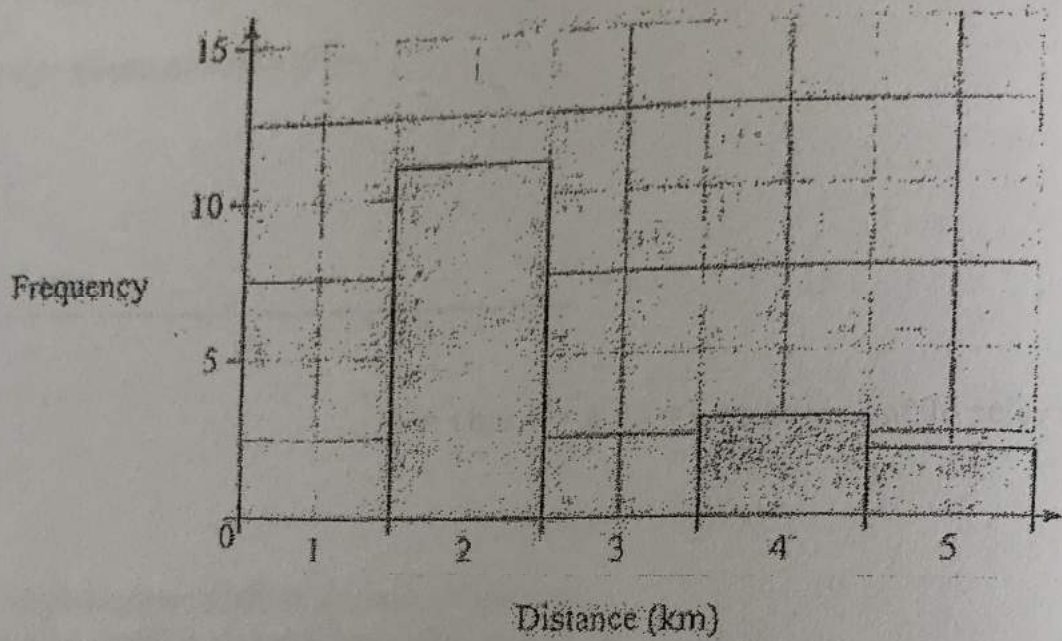
Work out the value of x .

$x =$ [2]

- (b) Find the value of $3q - pr$ when $p = -2$, $q = 4$ and $r = 3$.

..... [3]

- 9 Aimee asks 30 of her friends how far they travel to school to the nearest kilometre. The bar chart below shows some of her results.



- (a) (i) Write down how many of her friends travel 2 km to school.

..... [1]

- (ii) How many of her friends travel 4 km or more to school?

..... [1]

- (b) Four of her friends travel 3 km to school. Show this information on the bar chart.

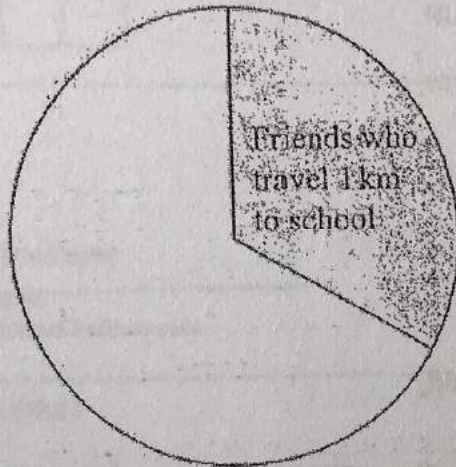
[1]

(c) Aimee starts to draw a pie chart to show this information.

(i) How many of her friends travel 1 km to school?

..... [1]

(ii) Draw the sector to show friends who travel 5 km. [1]



10 Write the number 76594.26

(a) correct to 1 decimal place,

..... [1]

(b) correct to 3 significant figures,

..... [1]

(c) correct to the nearest thousand,

..... [1]

(d) in standard form.

..... [2]