

Surname		Other Names	
Centre Number			Candidate Number
Candidate Signature			

Functional Skills Certificate
January 2009



MATHEMATICS (PILOT)
Functional Mathematics Level 1
Section B (Competency)

9305/B

Wednesday 14 January 2009 2.20 pm to 2.50 pm

<p>You will need no other materials.</p> <p>You must not use a calculator.</p>	
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Time allowed for Section B: 30 minutes

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
- Do all rough work in this book.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

Information

- The maximum mark for Section B is 20.
- The marks for questions are shown in brackets.
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

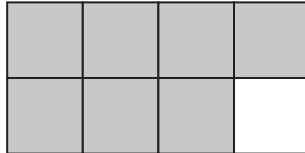


Answer **all** questions in the spaces provided.

- 4 Write the number seven thousand and sixteen in figures.

Answer (1 mark)

- 5 What fraction of this shape is shaded?



Answer (1 mark)

- 6 The pictogram shows the number of pupils absent from a class each day in one week.

Key: ○ represents 2 pupils

Monday	○
Tuesday	○ ◐
Wednesday	◐
Thursday	○ ○
Friday	○ ○ ◐

How many pupils were absent on Tuesday?

Answer (1 mark)



7 Work out 75×6

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

Answer (1 mark)

8 A jug holds 1500 ml of water when full.
10 equal-sized glasses can be filled from the full jug.

How much water is in one glass?

.....

Answer ml (1 mark)

9 Circle the temperature that is lower than -7°C

-2°C

10°C

-9°C

-6°C

(1 mark)

10 Convert 2500 grams to kilograms.

.....

Answer kilograms (1 mark)

11 Circle the fraction that is **not** equivalent to $\frac{2}{3}$

$\frac{4}{6}$

$\frac{6}{9}$

$\frac{7}{8}$

$\frac{10}{15}$

(1 mark)

8

Turn over ►



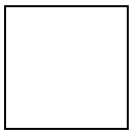
- 12** Ben buys a CD for £12.99
He pays with a £20 note.

How much change should he receive?

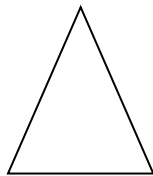
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Answer £ (1 mark)

- 13** Which one of the following shapes has exactly **two** lines of symmetry?



Square



Isosceles
triangle



Rectangle



Parallelogram

Answer (1 mark)

- 14** Work out 368×100

Answer (1 mark)

- 15** Twenty people went on holiday.
The table shows the type of transport they used.

Transport	Tally	Frequency
Air		
Road		
Rail		
Sea		
Total		20

Complete the frequency column.

(1 mark)



16 Work out $233 - 95$

.....

.....

.....

Answer (1 mark)

17 Carol needs three pieces of ribbon measuring 22 cm, 38 cm and 24 cm.

Work out the total length of ribbon she needs.

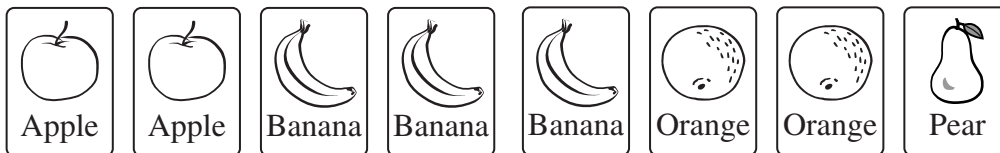
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Answer cm (1 mark)

18 Paul has eight cards showing pictures of fruit.



Paul chooses one card at random.

Which **two** types of fruit are equally likely to be chosen?

Answer and (1 mark)

19 Write $\frac{9}{10}$ as a decimal.

Answer (1 mark)



- 20** Carlos is flying to Paris.
His flight costs £45.
There is an additional charge of £10 for each piece of luggage taken.
Carlos takes two pieces of luggage.

Work out the total cost of his flight and his luggage.

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.....

Answer £ (1 mark)

- 21** Work out $13.06 + 9.78$

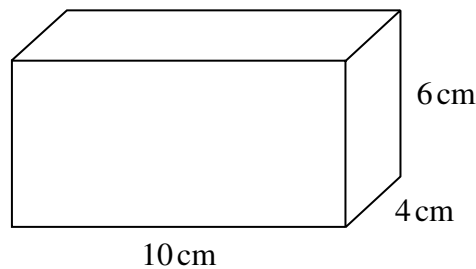
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Answer (1 mark)

- 22** A cuboid is 10 cm long, 4 cm wide and 6 cm high.



Work out the volume of the cuboid.

.....

.....

Answer cm^3 (1 mark)



23 Eight sweets are shared between Jill and Amir.
Amir receives three times as many sweets as Jill.

How many sweets does Amir receive?

.....
.....

Answer (1 mark)

END OF QUESTIONS



There are no questions printed on this page

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ANSWER IN THE SPACES PROVIDED**

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