Surname		Other Names	
Centre Number		Candidate Number	
Candidate Signature			

General Certificate of Secondary Education
June 2006

MATHEMATICS (MODULAR) (SPECIFICATION B)   **33003/FB**
Module 3   Foundation Tier Section B

F

AQA
ASSESSMENT and
QUALIFICATIONS
ALLIANCE

Wednesday 28 June 2006   9.45 am to 10.25 am

For this paper you must have:
- mathematical instruments

You must **not** use a calculator.

Time allowed for Section B: 40 minutes

Instructions
- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- Answer the questions in the spaces provided.
- 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 32.
- The marks for questions are shown in brackets.
- You may ask for more answer paper. This must be tagged securely to this answer book.

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

33003/FB

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

8 Here is a list of numbers.

        35   81   92   8   64   60

(a) Write down **two** numbers from the list which add up to 100.

Answer .... and .... *(1 mark)*

(b) Write down an odd number from the list.

Answer .... *(1 mark)*

(c) Write down **two** square numbers from the list.

Answer .... and .... *(2 marks)*

(d) Which number from the list is closest to 48?

....

....

Answer .... *(1 mark)*

(e) Work out the largest total that can be made by adding three different numbers from the list.

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Answer .... *(2 marks)*

9 Work out

(a) 18×5

....

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Answer .... *(1 mark)*

(b) $144 \div 6$

....

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Answer .... *(1 mark)*

10 Find 25% of 56.

....

....

Answer .... *(2 marks)*

11 (a) Work out 1300 divided by 52.

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....

Answer .... *(3 marks)*

(b) 1250 students and 50 teachers from a school go to a theme park.
They travel in coaches with 52 seats.

How many coaches are needed?

....

Answer .... *(1 mark)*

15

Turn over ▶

12 (a) Write down the answer to 7^2

Answer .... *(1 mark)*

(b) Estimate the answer to $\sqrt{55}$

....

Answer .... *(1 mark)*

13 (a) Which of these numbers is the largest?

0.365   0.9   0.84   0.17

Answer .... *(1 mark)*

(b) Which of these numbers is the smallest?

0.365   0.009   0.084   0.107

Answer .... *(1 mark)*

14 (a) Work out $\frac{7}{8} - \frac{1}{4}$

....

....

Answer .... *(2 marks)*

(b) Work out $2.7 - 1.88$

....

....

....

Answer .... *(1 mark)*

(c) Work out 0.4×0.2

....

Answer .... *(1 mark)*

15 Write $\quad$ 79% $\qquad$ 0.8 $\qquad$ $\frac{3}{4}$ $\qquad$ in order, starting with the smallest.

You **must** show your working.

....

....

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Answer .... *(3 marks)*

11

Turn over ▶

16 A canal boat travels 6 miles in 1 hour 30 minutes.

Calculate the average speed of the boat.
Give your answer in miles per hour.

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Answer .... miles per hour *(3 marks)*

17 Laura has two dogs, Bertie and Bromley.

Bertie eats $\frac{1}{3}$ of a tin of dog food every day.

Bromley eats $\frac{1}{2}$ of a tin of the same dog food every day.

What is the least number of tins of dog food needed to feed the dogs for seven days?

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Answer .... *(3 marks)*

END OF QUESTIONS

6

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