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|---------------------|--|------------------|--|
| Surname             |  | Other Names      |  |
| Centre Number       |  | Candidate Number |  |
| Candidate Signature |  |                  |  |

General Certificate of Secondary Education  
June 2006



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

**43003/FB**  
**F**

Practice Paper (Two-tier Specification) 2008

|   |  |
|---|--|
| <p><b>For this paper you must have:</b></p> <ul style="list-style-type: none"> <li>mathematical instruments</li> </ul> <p>You must <b>not</b> use a calculator.</p> |  |
|---|--|

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.

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

9 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?

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.....

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)

**10** Work out

(a)  $18 \times 5$

.....

.....

Answer ..... (1 mark)

(b)  $144 \div 6$

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Answer ..... (1 mark)

**11** Find 25% of 56.

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Answer ..... (2 marks)

**12** (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)

- 13 (a) Write down the answer to  $7^2$

Answer ..... (1 mark)

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

.....

Answer ..... (1 mark)

- 14 (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)

15 Work out  $\frac{7}{8} - \frac{1}{4}$

.....  
.....

Answer ..... (2 marks)

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)

**Turn over for the next question**

- 18 (a) You are given that  $24 = 2^3 \times 3$

Write each of the following as the product of prime factors in index form.

- (i) 48

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 .....

Answer ..... (1 mark)

- (ii) 240

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 .....

Answer ..... (1 mark)

- (b) What is the least common multiple (LCM) of 24 and 32?

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 .....

Answer ..... (2 marks)

- (c) What is the highest common factor (HCF) of 24 and 32?

.....  
 .....

Answer ..... (1 mark)

**END OF QUESTIONS**