

- 1 (a) Ring the two terms which add together to give  $2x$ .

$-2$                        $-4x$   
 $8x$   
 $6x$                        $-x$                        $2$   
 $x$                        $4x$

[1]

- (b) Simplify.

(i)  $3a + 5a + 2a$

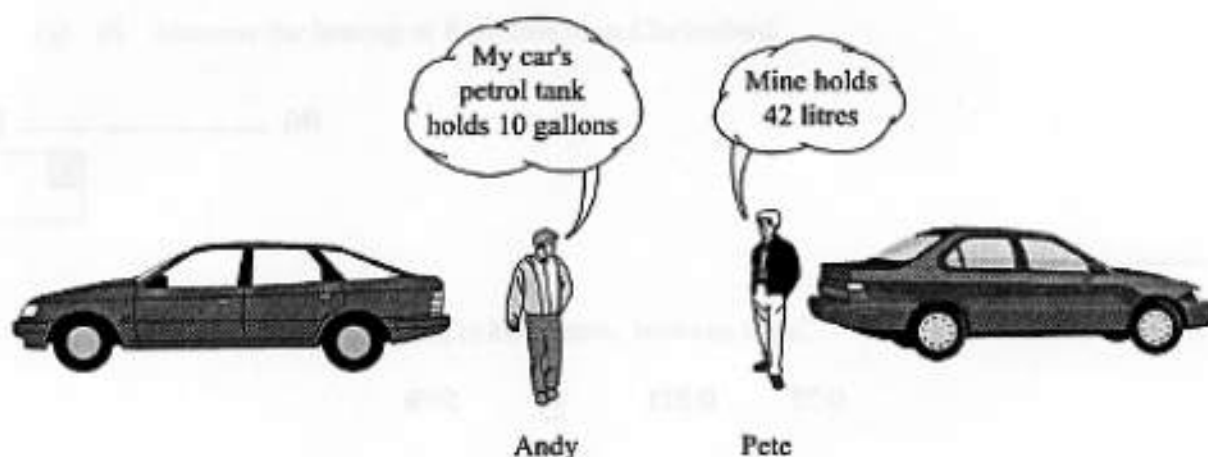
(b)(i) ..... [1]

(ii)  $5x + 2y - 3x + 4y$

(ii) ..... [2]

4
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2



Whose car holds more fuel?  
Give a reason for your answer.

..... because .....

[2]

2
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3 (a) Write down

(i) the cube of 4,

(a)(i) ..... [1]

(ii) 10 000 as a power of ten.

(ii) ..... [1]

(b) Work out.

$$10^2 \times 2^3$$

(b) ..... [2]

4 Write these in order, smallest first.

0.75

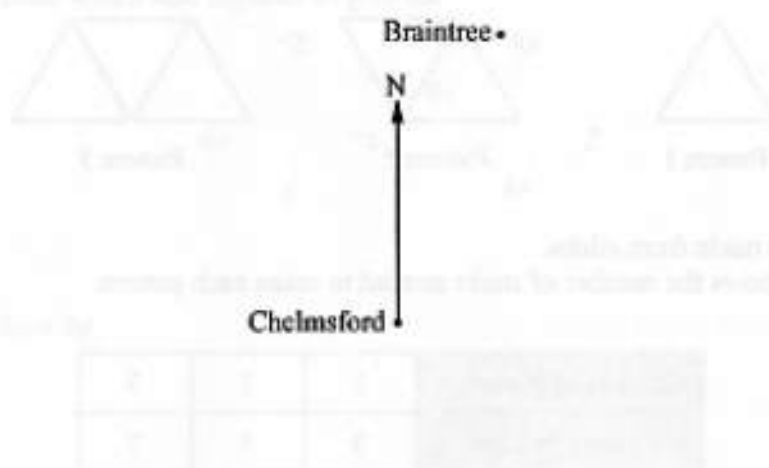
0.375

$\frac{9}{25}$

50%

[3]

3



Scale: 1 cm to 4 km

The diagram shows the position of two towns, Braintree and Chelmsford.

(a) (i) Measure the bearing of Braintree from Chelmsford.

(a)(i) .....° [1]

(ii) Find the actual distance, in kilometres, between them.

(ii) ..... km [2]

(b) Southend is 28 km from Chelmsford on a bearing of  $134^\circ$ .

Mark the position of Southend on the diagram and label it.

[2]



6



Pattern 1



Pattern 2



Pattern 3

These patterns are made from sticks.

The table below shows the number of sticks needed to make each pattern.

Number of pattern	1	2	3
Number of sticks	3	5	7

How many sticks will you need to make Pattern 20?

Show how you worked out your answer.

[2]

2

7 Work out.

$$\frac{5}{6} - \frac{1}{2}$$

[2]

2

- 8 Janet copies 47 pages.  
Each page costs 18p to copy.

She has £10 to pay for the photocopying.

Without working out the exact total cost, decide whether she has enough money.  
Explain how you decide.

MATHEMATICS C  
(Ordinary Assessment)

1986/2335A

MOORLEIGH - SECTION 2

Monday 27 JANUARY 2005

Qualifying subject for the applicant's course  
Approved by the  
Department of Education  
and Skills  
For use in schools

Calculator  
Marking

Calculator Marking	Calculator Marking	Calculator Marking
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Marking

INSTRUCTIONS TO CANDIDATES

1. Write your name and centre number in the spaces provided.
2. Answer all the questions.
3. Write your answers in the spaces provided.
4. There is a mark of 10 for each question. The total mark for this section is 40. [3]
5. There is a mark of 10 for each question. The total mark for this section is 40. [3]

INFORMATION FOR CANDIDATES

1. The number of marks is given in brackets [ ] for the end of each question or part question.
2. The total number of marks for this paper is 25.

NOTES

You are not allowed to use a calculator for Section 2 of this paper.

FOR CANDIDATES' USE

Section 1	Section 2
Section 3	Section 4
Total	

This document is for use in schools only. It is not to be used for any other purpose.