

## BIDMAS

Please write clearly in block capitals

Forename:

Surname:

### Materials

For this paper you must have:

- mathematical instruments



You must **not** use a calculator.

### 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. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

### Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

### Advice

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

**1(a)** Solve for the following:

(Level 3)

$$10 \div 2 - 3 \times 1$$

Show your working.

[1 mark]

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Answer \_\_\_\_\_

**1(b)** Consider the following expression:

$$55 - (1 + 4) \times 4$$

Write the expression in simplest form.

[1 mark]

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Answer \_\_\_\_\_

**Turn over for next question**

**1(c)** Solve for the following:

(Level 3)

$$(2 \times 7) + 1 \times 3$$

Show your work.

[1 mark]

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Answer \_\_\_\_\_

**1(d)** Solve for the following:

$$7 \times (8 \div 4)^2$$

Show your work.

[2 marks]

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Answer \_\_\_\_\_

**Turn over for next question**

**1(e)** Solve for the following:

$$\frac{3 - (18 \div 6)^2}{-2}$$

Show your work.

[2 marks]

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Answer \_\_\_\_\_

**2** Consider the following expression:

(Level 3)

$$x^2 + x^2 \times 5$$

Write the expression in it's simplest form.

[2 marks]

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Answer \_\_\_\_\_

**Turn over for next question**

**3** Consider the following expression:

(Level 4)

$$3x - 4 \times x + 4 \times y + 5x \times y + 5x \times 4$$

**3(a)** Write the expression in simplest form. You must show your working.

[2 marks]

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Answer \_\_\_\_\_

**3(b)** Find the value of the expression found in part (a), when  $x = 2$  and  $y = 4$

[2 marks]

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Answer \_\_\_\_\_

Turn over for next question

- 4 John has a weekend job working in the garden. (Level 4)  
 One weekend he works 8 hours on one job.  
 If he charges an initial £10 for the job and £8 for each hour of work, how much does John earn?

[1 mark]

£26

£74

£88

£144

- 5 Alice says that she has won 5 times as many medals as her two younger sisters Beth and Freya combined. (Level 5)  
 Given that Beth has won 3 medals and Freya has won  $x$  number of medals, find the expression that gives Alice's medal total.

[1 mark]

 $5x + 3$  $5 + 3x$  $5(3 + x)$  $x(5 + 3)$ 

- 6 Bill says that in order to figure out what 5 more than 6 times a number is, you need to multiply first. (Level 5)  
 Imran says that is wrong and you have to add first.

[1 mark]

Bill is correct

Imran is correct

They are both correct

They are both incorrect.



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7 Amy invests £200 at an interest rate of 5% for 3 years. (Level 5)

To calculate how much money she will have after 3 years she uses the formula below.

$$a = 200(1 + 0.05)^3$$

Her calculations are as follows.

$$1 + 0.05 = 1.05$$

$$200 + 1.05 = 201.05$$

$$201.05^3 = \text{£}8,126,662.66 \text{ (2dp)}$$

Her calculation is not correct.

Identify the error made, and using the formula, calculate the correct value after 3 years.

Give your answer to the nearest pound.

[2 marks]

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Answer \_\_\_\_\_



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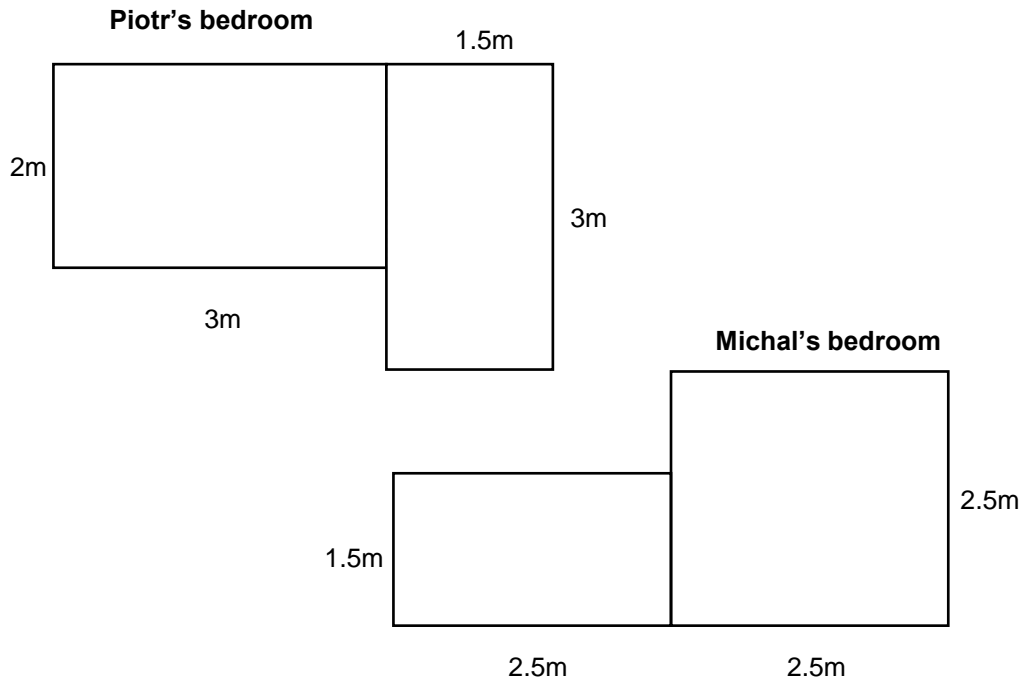


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Piotr and Michal are brothers who can't decide whose bedroom is bigger.

(Level 5)

The diagrams below show the dimensions of each bedroom.



Whose bedroom has a greater area? You must show your working.

[3 marks]

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Answer \_\_\_\_\_

**End of questions**