

## Best Buys

Please write clearly in block capitals

Forename:

Surname:

### Materials

For this paper you must have:

- mathematical instruments



You **can** 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.

Answer **all** questions in the spaces provided

1 At the store, cola is sold in a multipack of cans and in a single bottle.

(Level 4)

**Multipack**



6 × 330ml cans  
£1.70

**Single**



1 × 1.5L bottle  
£1.50

Which option is the better value for money?

You **must** show all your working.

[3 marks]

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Answer \_\_\_\_\_

**Turn over for next question**

Turn over ►

2 Grayson Academy can choose from two suppliers when buying scissors.


(Level 4)

**Desk Supplies**



Sells a pack of 4 scissors for  
£9.95  
Delivery cost: £4.95

**Delaware Resources**



Sells a pack of 2 scissors for  
£4.99  
Delivery cost: £2.99

The academy intends to purchase 250 scissors.

Which supplier offers better value for money?

You **must** show clearly how you get to your answer.

[3 marks]

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Answer \_\_\_\_\_

Turn over for next question

Turn over ►

3 Sugar can be purchased from four different shops.

(Level 4)

Shop A



500g for 79p

Shop B



0.5kg for 79p

Shop C



1kg for £0.99

Shop D



1250g for £1.29

Work out which shop provides the best value per gram of sugar.

You **must** show your working.

[4 marks]

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Answer \_\_\_\_\_



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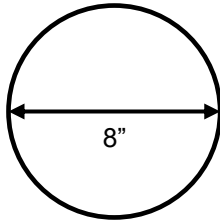
Turn over ►

4 Cheese pizza comes in three different sizes and at three different prices.

(Level 5)

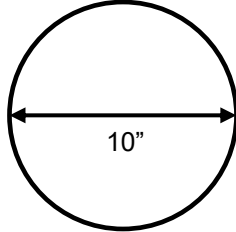
Not drawn  
accurately

**Pizza 8 inch Small**



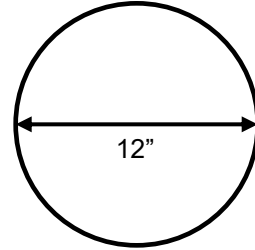
£7.99

**Pizza 10 inch Medium**



£9.99

**Pizza 12 inch Large**



£12.99

Work out which pizza is the best value for money.

You **must** show clearly how you got your answer.

[4 marks]

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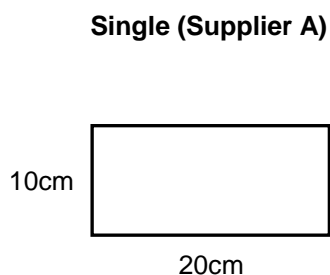
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Answer \_\_\_\_\_

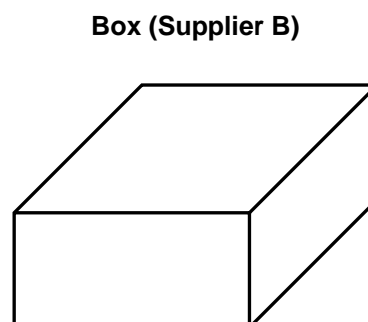
**Turn over for next question**

- 5 Wall tiles are sold either as a single tile or as a box of tiles from two different suppliers.

(Level 5)



49p each



£7.99 per box

Content covers  $0.32\text{m}^2$  of surface

Not drawn accurately

- 5(a) Brian needs enough tiles to cover a wall of  $4\text{m}^2$  and he can only use one supplier. Boxes of tiles are sold as full boxes only. Which option should he choose? You **must** show all of your working.

[5 marks]

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Answer \_\_\_\_\_

- 5(b) The shop starts to sell half-boxes of tiles. Does this change the best value option for Brian? You **must** explain your answer.

[1 mark]

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Answer \_\_\_\_\_

6 Three shops sell three different sized bottles of water.

(Level 5)

Amazer shop sells water in 1L bottles, Best-Value sells water in 0.5L bottles and Cheapest Buy sells 750ml bottles of water.

I bought 4 bottles from Amazer, 5 from Best-Value and 9 from Cheapest Buy. I spent a total of £8.96. **Jack**

I purchased 8 from Amazer and 10 from Best-Value. I have £1.08p change from a £10 note. **Sophie**

For £11.77, I bought the following: 9 from Amazer, 9 from Best-Value and 5 from Cheapest Buy. **Kabira**

Using the three statements above, work out who got the cheapest water per millilitre.

You **must** show clearly how you got your answer.

[6 marks]

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Answer \_\_\_\_\_

**End of questions**