Name:

Exam Style Questions

Best Buys

Corbettmaths

Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 210

Answers and Video Solutions

1. Water is sold in two sizes.

1 gallon

2 gallons

85p

£1.72

Which is the better value for money?
You must show all your working.

$(2 \times 1 \text{ gallon})$: $85p \times 2 = £1.70$

$1 \times 2 \text{ gallon}$: $£1.72$

The 1 gallon container is better value.

(2)

2. The same type of dinner plate is sold in two different packs.

Small pack
Contents
3 plates

£5.25

Large pack
Contents
12 plates

£21.24

Which is the better value for money?
You must show all your working.

5.25
$\times 4$
$\overline{21.00}$

$4 \times 3 \text{ plates}$: $£21.00$

$1 \times 12 \text{ plates}$: $£21.24$
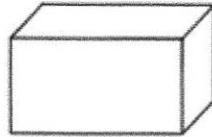
The small pack is better value.

(2)

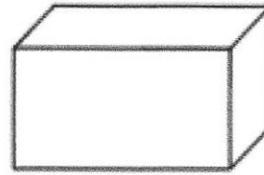3. Vegetarian burgers are sold in two different sizes.

Regular Packet
8 burgers

Large Packet
24 burgers

£1.59

£4.79

Which size packet is the better value for money?
You must show all your working.

3×8 burgers : £4.77

1×24 burgers : £4.79

$$
\begin{array}{r}
1.59 \\
\times\ 2\ 3 \\
\hline
4.77
\end{array}
$$

The regular packet is better value for money.

(2)

4. James and Maddie are selling cupcakes.

James sells 6 cupcakes for £5
Maddie sells 4 cupcakes for £3.50

6   (12)
4   8   (12)

Which is better value?
You must show all your working.

To buy 12 cupcakes

James   £5 × 2 = £10

Maddie   £3.50 × 3 = £10.50

James's offer is the best value for money.

(3)

5. Orange juice is sold in two size containers.

6 Litres

4 Litres

£2.20   £3.24

4   8   ⑫
6   ⑫
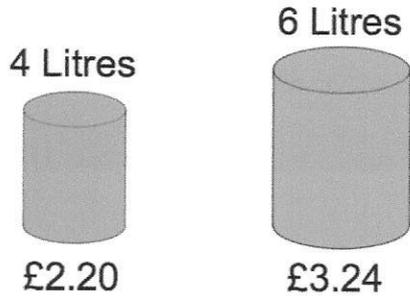
A small container contains 4 litres of orange juice and costs £2.20
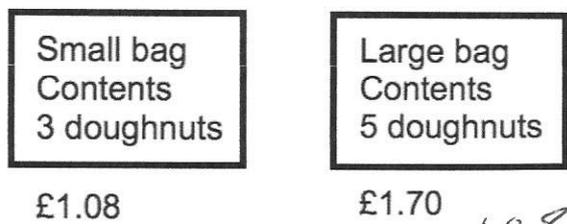A large container contains 6 litres of orange juice and costs £3.24

Which size of container gives the better value for money?
You must show all your working.

Small   £2.20 × 3 = £6.60

large   £3.24 × 2 = £6.48

The large container is better value for money.

(4)

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6. A shop sells doughnuts in two different size bags.

3 6 9 12 ⑮
5 10 ⑮

| Small bag Contents 3 doughnuts | Large bag Contents 5 doughnuts |

£1.08   £1.70

1.08
× 5
———
5.40

1.70
× 3
———
5.10

Which is the better value for money?
You must show all your working.

Small bag - £5.40 for 15

large bag - £5.10 for 15

The large bag is better value.

(3)

7.   Snacks can be bought in

a pack of 8 biscuits for £1.92
a pack of 10 biscuits for £2.55

Which of these two packs is better value for money?
You must show all your working.

8 pack

$£1.92$
$× 5$
$£9.60$
for 40

10 pack $£2.55$
$× 4$
$£10.20$
for 40

The 8 pack is better value.

(3)

8.   In a shop, glue sticks cost:

75p each

or

£3.50 for a box of 5 glue sticks

Work out the cheapest price for 24 glue sticks.

$4 × 5 = 20$ glue sticks

3.50
$× 4$
14.00

75
$× 4$
300

$14 + 3 = £17$

£17

(3)

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9.   50 rulers cost £10   1000p

30 protractors cost £5.40   540p

A protractor is cheaper than a ruler.

Work out how much cheaper.

$$50\overline{)1000}\quad 0020$$

20p per ruler

$$30\overline{)540}\quad 018$$

18p per protractor

20 - 18 = 2

2p

(3)

10.   Two teachers, Mr Stevens and Miss Hendry each buy 180 pencils.

Small box	Large box
20 pencils for £1.60	30 pencils for £2.19

20 × 9 = 180   30 × 6 = 180

Mr Stevens buys only small boxes of pencils.
Miss Hendry buys only large boxes of pencils.

Work out how much more Mr Stevens pays for the 180 pencils than Miss Hendry.

£1.60 × 9 = £14.40

£2.19 × 6 = £13.14

14.40 - 13.14 = 1.26

£1.26

(4)

11. A shop normally sells a packet of 15 pens for £4.50

In a sale, they offer 2 packets for £7.80

30 pens

The shop put up this sign.

$$\boxed{\text{Save 5p per pen!}}$$

Is the sign correct?
You must show your working.

$450 \div 15 = 30p$ per pen.

$780 \div 30 = 26p$ per pen.

No, you only save 4p per pen.

(3)

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12. A shop sells Cola in three different size bottles.

0.6

2 Litre £1.99	600ml 62p	1.5 Litre £1.53

× 3   × 10   × 4

Which size bottle is the best value for money?
You must show all your working.

2   4   6
0.6 1.2 1.8 2.4   3   3.6 4.2 4.8 5.4 6
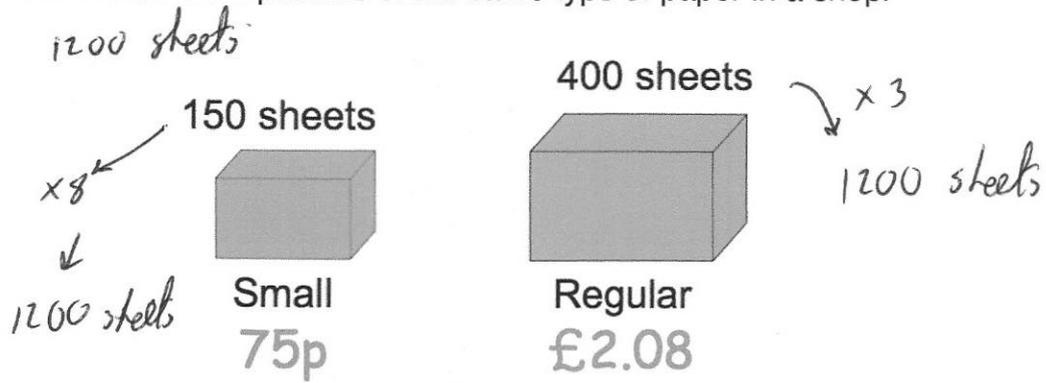1.5   3   4.5   6

£1.99 × 3 = £5.97

62p × 10 = £6.20

£1.53 × 4 = £6.12

The two litre bottle is best value.

(3)

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13. There are two different packets of the same type of paper in a shop.

1200 sheets

150 sheets

x8

1200 sheels

Small
75p

400 sheets
x3
1200 sheets

Regular
£2.08

Which of the two packets gives the better value for money?
You must show your working.

$75p \times 8 = £6$

$£2.08 \times 3 = £6.24$

The small pucket is better value.

(4)

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14. Bramley apples cost £4.60 for a 3kg bag at Supervalue supermarket.
The same type of apples cost £11.40 for a 7.5kg bag at Nixon's supermarket.

Where are the apples the best value for value?
You must show your working.

$4.60 \div 3 = £1.5333...$ per kg - Supervalue

$11.40 \div 7.5 = £1.52$ per kg - Nixon's

Nixon's is better value.

(4)

15. A supermarket sells Baked Beans in two different size cans.

215g
40p

395g
74p

Which size can is the best value for money?
You must show all your working.

$40 \div 215 = 0.186p$ per gram.

$74 \div 395 = 0.187p$ per gram.

The 215g can is better value.

(4)

16. A shop sells the same brand of washing powder in 3 different sized boxes.

Small Box	Standard Box	Family Box
900g for £2.52	2.25kg for £6.03	4kg for £10.90

(a) Which box is the best value for money?
You must show your working.

Small : 252 ÷ 900 = 0.28p per gram.

Standard : 603 ÷ 2250 = 0.268 p per gram.

Family : 1090 ÷ 4000 = 0.2725 p per gram.

The Standard box is better value then the other two options

(4)

(b) Explain why a customer may choose to buy a pack which is not best value for money.

e.g. They may not have enough money (e.g £5)
e.g. They may only need a small amount, for example
going on holiday to a caravan site.

(1)

17. Two hardware stores sell lightbulbs.

Home World	Oklahoma DIY
6 lightbulbs WAS £30 NOW 15% off	lightbulbs - £6.50 Buy 2 get 1 free

Nicole wants to buy 42 lightbulbs.

At which hardware store is it cheaper for Nicole to buy the lightbulbs?
You must show your working.

Home World $7 \times 6 = 42$

$7 \times £30 = £210$

10% → 21
5% → 10.50
      ——
     31.50

$210 - 31.50 = £178.50$

Oklahoma DIY   buy 28 get 14 free (42 in total)

$28 \times 6.50 = £182$

Home World is cheaper.

(4)

18. A supermarket sells cashew nuts in 200g packets and 500g packets.
They have two offers on the cashew nuts.

200g	500g

5 packets for £9.80   3 packets for £14.75

Which offer is better value for money?
You must show your working.

200g

$5 \times 200g = 1000g$
or 1kg

$9.8 \div 1 = £9.80$ per kg

500g

$3 \times 500g = 1500g$
or 1.5kg

$14.75 \div 1.5 = £9.833...$ per kg

The 5 packets of 200g cashews is better value.

(4)

19. Candles normally cost £6 each.
    Two websites have special offers

Corbettmaths Candles

Buy 3 get 1 free

Candles'R'us

20% off

Laura wants to buy 30 candles.
Which website should Laura use?

Corbettmaths Candles

buy 21 and get 7 free

then buy 2 more

$23 \times 6 = £138$

Candles'R'Us

$30 \times 6 = £180$

$10\% \rightarrow £18$
$20\% \rightarrow £36$

$180 - 36 = £144$

She should use Corbettmaths Candles

(4)

20. Two shops sell the same type of perfume.
A 100ml bottle of perfume normally costs £40.

Shop A

50% extra free

150ml for £40

Only £40

Shop B

Buy one get the second
HALF PRICE

Normal price £40
for 100ml

200ml for £60

Rebecca says that both offers give the same value for money.
Is she correct? Show your working.

Shop A

150 ml for £40

4000 ÷ 150 = 26.66...p per ml

Shop B

200ml for £60

6000 ÷ 200 = 30 p per ml.

No, shop A is better value.

(5)

21. In England, a 10 mile train journey costs £6.40 $\xrightarrow{\times 1.4}$ £8.96

In Ireland, a 20km train journey costs €10.85

At the time £1 = €1.40

Which train journey is better value?

1 mile ≈ 1.6km.

England
16km for €8.96
÷16   ÷16
1km for €0.56

Ireland
20km for €10.85
÷20   ÷20
1km for €0.5425

The train journey is better value in Ireland.

(4)

22. A company normally makes 200g bars of chocolate.

As the cost of the ingredients has increased, the company are planning to either:

Option 1 - increase the price of the bar by 20%

Option 2 - keep the price the same but reduce the amount of chocolate by 30%

10% → 20g
30% → 60g

Work out which option gives better value for their customers.
Explain your answer.

Let cost equal £1

Option 1 : 200g for £1.20
120 ÷ 200 = 0.6p per g

Option 2 : 140g for £1
100 ÷ 140 = 0.714... p per g

Option 1 is better value for the customers.
If the bar originally cost £1, it would be 0.5p per g.
Option 1 increases it to 0.6p per g, whereas Option 2
increases it to 0.714... p per g.

(4)