Name: SOLUTIONS

GCSE (1 - 9)

Best Buy

Buy me a coffee

Solutions by
Kenneth Stafford
MATHS TUTOR
ken@kennethstafford.co.uk

These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Summer 2017, Paper 2F, Q10
2	Edexcel, GCSE, Autumn 2018, Paper 1F, Q18
3	Edexcel, GCSE, Autumn 2019, Paper 2F, Q14
4	Edexcel, GCSE, Autumn 2020, Paper 3F, Q15
5	Edexcel, GCSE, Summer 2023, Paper 3F, Q14]
6	Edexcel, GCSE, November 2022, Paper 2F, Q13
7	Edexcel, GCSE, Summer 2022, Paper 3F, Q25

1

Suha is going to buy 150 envelopes.

Here is some information about the cost of envelopes in two shops.

Letters2send
Pack of 25 envelopes for £3.49

Stationery World
Pack of 10 envelopes for £2.10 Buy 2 packs get 1 pack free

Suha wants to buy the envelopes as cheaply as possible.

Which shop should Suha buy the 150 envelopes from?
You must show how you get your answer.

Letters2send

25 env. = £3.49 (x6)

150 env. = £20.94

Stationary World

10 env. = £2.10

30 env. = £4.20 (only pay for 20 env.) (x5)

150 env. = £21

Letters2send (as cheaper)

(Total for Question 10 is 4 marks)

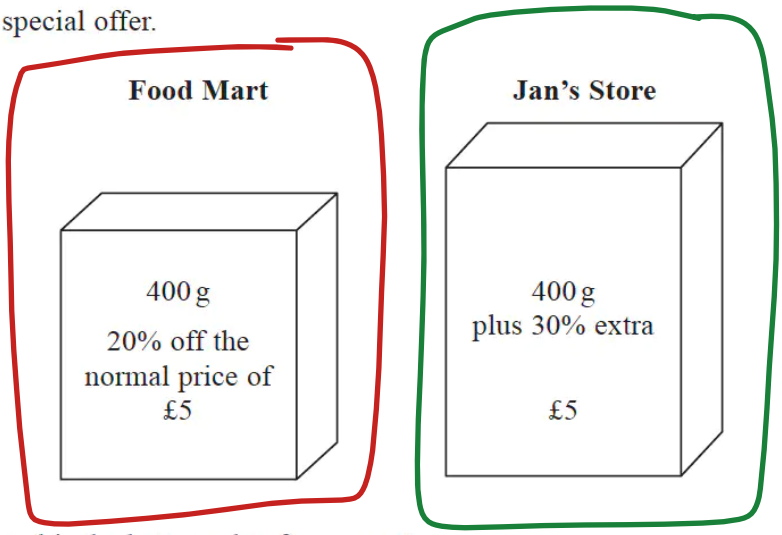
[Edexcel, GCSE, Summer 2017, Paper 2F, Q10]

20.94 < 21

2

Food Mart and Jan's Store sell boxes of the same type of breakfast cereal.

Each shop has a special offer.



Which box of cereal is the better value for money?
You must show your working.

Food Mart

20% of £5 = £1

400g = £4

100g = £1 ÷4

Jan's Store

30% of 400g = 120g

520g = £5 ÷5

104g = £1

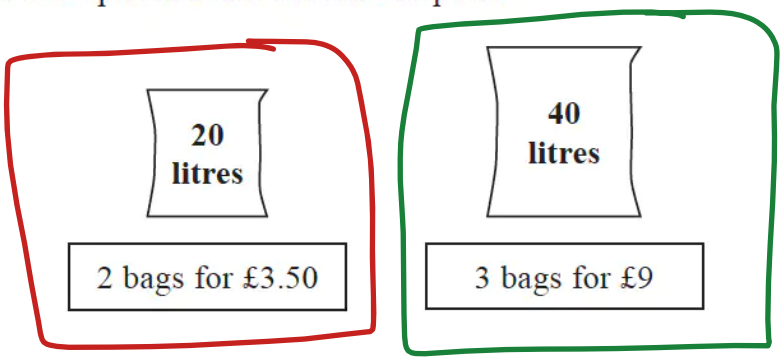
Jan's Store is better value.

(Total for Question 18 is 4 marks)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q18]

3

A shop sells compost in 20 litre bags and in 40 litre bags.
One day the shop had two special offers for the compost.



Which offer is the better value for money?
You must show how you get your answer.

20 litre bags

2 bags = 40L = £3.50

×3 ↓ ↓ ×5

120L = £10.50

40 litre bags

3 bags = 120L = £9

120L = £9

The 40 Litre bag offer is better.

(Total for Question 14 is 3 marks)

[Edexcel, GCSE, Autumn 2019, Paper 2F, Q14]

4

Here are the costs of the same type of batteries in two shops.

Shop **A**	Shop **B**
Pack of 4 batteries £1.60	Pack of 6 batteries £2.70

Harry needs to buy at least 30 batteries.
He assumes that he has to buy batteries in whole packs.
Harry wants to buy the batteries as cheaply as possible from the same shop.

(a) Which shop should he buy the batteries from, shop **A** or shop **B**?
You must show all your working.

Shop A

4 batteries = £1.60 ×8

32 batteries = £12.80 ×8

Shop B

6 batteries = £2.70 ×5

30 batteries = £13.50 ×5

Shop A

(4)

Harry's assumption is wrong.
He can buy single batteries for 40p each in shop **A** and for 45p each in shop **B**.

(b) Does this affect which of these two shops Harry should buy the batteries from?
Give a reason for your answer.

No. Shop A was cheaper before and he can now buy 2 less batteries so it is even cheaper.

(1)

(Total for Question 15 is 5 marks)

[Edexcel, GCSE, Autumn 2020, Paper 3F, Q15]

5

120 boxes cost £6
270 bags cost £10

A bag is cheaper than a box.

How much cheaper?
Give your answer in pence correct to 1 decimal place.

120 boxes = 600p ÷120
1 box = 5p ÷120

270 bags = 1000p
1 bag = 3.703p
1 bag = 3.7p (1dp)

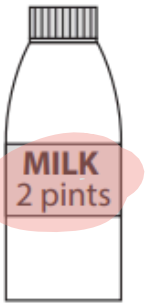
5 − 3.7 = 1.3 ..... p

(Total for Question 14 is 4 marks)

[Edexcel, GCSE, Summer 2023, Paper 3F, Q14]

6

A shop has two different special offers on milk.



75p

Pay for 2 bottles
get 1 bottle free



£1.28

Pay for 1 bottle
get 1 bottle half price

Which offer gives the better value for money?
You must show how you get your answer.

2 pints = 75p
2 pints = 75p
2 pints = FREE
6 pints = £1.50
÷6 ↓ 1 pint = 25p ↓ ÷6

4 pints = £1.28
4 pints = £0.64 (half price)
8 pints = £1.92
÷8 ↓ 1 pint = 24p ↓ ÷8

Best deal : Pay for 1 bottle
get 1 bottle half price

(Total for Question 13 is 4 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q13]

7

Jo is going to buy 15 rolls of wallpaper.

Here is some information about the cost of rolls of wallpaper from each of two shops.

Chic Decor	Style Papers
3 rolls for £36	Pack of 5 rolls normal price £70 12% off the normal price

Jo wants to buy the 15 rolls of wallpaper as cheaply as possible.

Should Jo buy the wallpaper from Chic Decor or from Style Papers?
You must show how you get your answer.

Chic Decor

3 rolls = £36

x5 ↓ ↓ x5

15 rolls = £180

Style Papers

5 rolls = £70

15 rolls = £210

12% of 210 = £25.20

210 − 25.20 = £184.80

Chic Decor is cheaper.

(Total for Question 25 is 4 marks)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q25]