

GCSE QUESTIONS

Q1. NON-CALCULATOR

Work out $£3.89 \times 5$

£

(Total for question = 2 marks)

Q2. NON-CALCULATOR

One day Sally earned £60
She worked for 8 hours.

Work out Sally's hourly rate of pay.

£.....

(Total for question = 2 marks)

Q3. NON-CALCULATOR

On Monday Alex earned £120
She worked for 8 hours.

(a) Work out Alex's hourly rate of pay.

£

(2)

On Monday Alex earned £120. On Tuesday she earned £100

Alex earned the same amount of money on Wednesday, on Thursday and on Friday.

She earned a total of £550 for these five days.

(b) How much did Alex earn on Wednesday?

£

(3)

(Total for question = 5 marks)

Q4. NON-CALCULATOR

Here are some prices in a café.

Prices	
Tea	£1.60
Coffee	£2.25
Milk	95p
Toast	£1.85
Bacon sandwich	£3.30
Egg sandwich	£2.95

Jack orders:

- 2 teas
- 1 coffee
- 1 toast
- 1 bacon sandwich.

Jack only has a £10 note.

Does he have enough money to pay the bill? You must show how you get your answer.

(Total for question = 3 marks)

Q5. NON-CALCULATOR

Tim and three friends go on holiday together for a week.

The 4 friends will share the costs of the holiday equally.

Here are the costs of the holiday.

- £1280 for 4 return plane tickets
- £680 for the villa
- £220 for hire of a car for the week

Work out how much Tim has to pay for his share of the costs.

£

(Total for question = 3 marks)

Q6. NON-CALCULATOR

Sam buys 20 boxes of oranges.
There are 25 oranges in each box.

Each box of oranges costs £7

$\frac{2}{5}$

Sam sells $\frac{2}{5}$ of the oranges he bought.

He sells each of these oranges for 40p.

He then sells each of the remaining oranges at 3 oranges for 50p.

Did Sam make a profit or did Sam make a loss?

You must show working to justify your answer.

(Total for question = 5 marks)

Q7. NON-CALCULATOR

Ryan and Carl each get paid a basic pay of £60 per day.

One day, Ryan also gets a bonus of 25% of his basic pay.

Carl also gets £20 in tips from customers.

Work out the difference between the total amounts of money that Ryan and Carl each get.

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(Total for question = 3 marks)

Q8. NON-CALCULATOR

Rehan is on holiday in the USA. He has \$200 to spend on clothes.

Rehan buys

- 1 pair of trainers costing \$60
- 3 T-shirts costing \$25 each.

He also wants to buy a jacket costing \$80

(a) Has Rehan got enough money to buy the jacket? You must show how you get your answer.

(3)

The trainers cost \$60. The exchange rate is \$1 = £0.749

Rehan says, "The trainers cost less than £40"

Rehan is wrong.

(b) Using a suitable approximation, show working to explain why.

(2)

(Total for question = 5 marks)

Q9. NON-CALCULATOR

Here is a bill for a dishwasher repair.
Complete the bill.

Description	Number	Cost of each item	Total
Filter	1	£28.95	£28.95
Basket wheel	8	£1.50	£
Spray arm	2	£	£20.90
Labour charge 1½ hours at £18.00 an hour			£
Total cost			£

(Total for Question is 4 marks)

Q10. CALCULATOR ALLOWED

Price list	
pens	6 for 82p
pencils	15 for 45p
rulers	10 for £1.25
pencil cases	37p each

Neil buys 30 pens, 30 pencils, 30 rulers and 30 pencil cases.

What is the total amount of money Neil spends?

£

(Total for question = 5 marks)

Q11. CALCULATOR ALLOWED

Dylan and some friends went to the cafe.

Cafe Price List	
tea	65p
coffee	79p
hot chocolate	84p

Dylan bought himself a cup of tea.

He bought each of his friends a cup of coffee.

He paid with a £10 note.

He got £4.61 change.

How many friends were with Dylan at the cafe?

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(Total for question = 4 marks)

Q12. CALCULATOR ALLOWED

Tracy buys

2 coffees at	£1.10 each
3 teas at	95p each
5 sandwiches at	£2.15 each

Tracy shares the total cost equally between 5 people. How much does each person pay?

£

(Total for question = 4 marks)

Q13. CALCULATOR ALLOWED

Uzma is planning a party for 120 children. She is going to give every child a toy.

A pack of 8 toys costs £4.35

Work out how much Uzma will have to pay for the toys.

£

(Total for question = 3 marks)

Q14. CALCULATOR ALLOWED

Packs of batteries cost £2.85 each.

Ben has £45 to spend on batteries.

Ben buys as many packs of batteries as he can. Work out how much change he should get from £45

£

(Total for question = 3 marks)

Q15. CALCULATOR ALLOWED

Ellie makes hats.

She makes at least 17 hats per hour.

She is paid 46p for each hat she makes.

Reaze is a waiter. He works 35 hours and is paid a total of £266

Show that Ellie's hourly rate of pay is more than Reaze's hourly rate of pay.

(Total for question = 3 marks)

Q16. CALCULATOR ALLOWED

There are 14 rows of seats in a cinema.
There are 15 seats in each row.

A film was shown in the cinema on Saturday.
Each ticket for the film cost £6.50

The tickets that were sold cost a total of £1274

How many tickets were **not** sold?

.....
(Total for question = 3 marks)

Q17. CALCULATOR ALLOWED

Joanne wants to buy a dishwasher.

The dishwasher costs £372

Joanne will pay a deposit of £36

She will then pay the rest of the cost in 4 equal monthly payments.

How much is each monthly payment?

£

(Total for question = 2 marks)

Q18. CALCULATOR ALLOWED

Dylan buys 13 bicycle lights for £7.50 each.
He pays with five £20 notes.

(a) How much change should Dylan get?

£
(3)

The normal price of a bicycle is £120

In a sale, there is $\frac{1}{5}$ off the normal price of the bicycle.

(b) Work out the price of the bicycle in the sale.

£
(2)
(Total for question = 5 marks)

Q19. CALCULATOR ALLOWED

Here is the charge at a car park in Spain.

<p>Car park</p> <p>0.024 euros per minute</p>

Jon parked his car in this car park.

Jon drove into the car park at 10 45

When he drove out of the car park he had to pay 8.40 euros.

At what time did Jon drive out of the car park?

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(Total for question = 3 marks)

Q20. CALCULATOR ALLOWED

A shop sells pens at different prices.

The cheapest pens in the shop cost 27p each.

Lottie buys 18 pens from the shop.

She pays with a £10 note.

(a) If Lottie buys 18 of the cheapest pens, how much change should Lottie get?

£

(2)

Instead of buying the cheapest pens, Lottie buys 18 of the more expensive pens.

She still pays with a £10 note.

(b) How does this affect the amount of change she should get?

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.....

(1)
(Total for question is 3 marks)

Q21. CALCULATOR ALLOWED

The table shows the costs of sending a parcel by the Express service and by the Rapid service.

Type of service	Cost
Express	£15.25
Rapid	£35.38

Brendan has to send 12 parcels.

It will be cheaper to send the parcels by the Express service than by the Rapid service.

(a) How much cheaper?

£
(3)

Luke wants to send 21 parcels by the Express service.

He does the calculation $20 \times £15 = £300$ to estimate the cost.

(b) Explain why Luke's calculation shows the actual cost will be more than £300

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.....
.....

(1)
(Total for question = 4 marks)

Q22. CALCULATOR ALLOWED

Ravi buys some hats to sell at a school fete.

He buys 40 hats for a total of £120

$\frac{3}{4}$

Ravi sells $\frac{3}{4}$ of these hats at £4.50 each. He reduces the selling price of the remaining hats to £4 each. He sells half of the remaining hats at this selling price.

Work out the profit that Ravi makes.

£

(Total for question = 5 marks)

Q23. CALCULATOR ALLOWED

There are 495 coins in a bottle.

$\frac{1}{3}$ of the coins are £1 coins.

124 of the coins are 50p coins. The rest of the coins are 20p coins.

Work out the total value of the 495 coins.

£

(Total for question = 4 marks)

Q24. CALCULATOR ALLOWED

Oliver wants to buy some stickers.
He only has a £10 note.

Each packet of stickers costs £1.29
Oliver buys as many packets of stickers as possible.

(a) Work out how much change Oliver should get from the £10 note.

£

(3)

Jessica also wants to buy some stickers.
There are 6 stickers in each packet.
Jessica works out that she can buy exactly 28 stickers.

(b) Is Jessica correct? Justify your answer.

.....
.....

(1)

(Total for question = 4 marks)