Non-calculator Questions

Edexcel

1.

John works Monday to Friday.
He buys his lunch on his way to work.

Each day John buys a sandwich, a bottle of water and a bag of crisps.

Shop A	
any sandwich	£2.85
a bottle of water	60p
a bag of crisps	85p

Shop B
£3 meal deal

any sandwich
a bottle of water
a bag of crisps

John thinks he will save more than £7.50 a week if he buys his lunch each day from shop B instead of shop A.

Is John correct?
You **must** show your working.

(4)

Highfield

2.

You are reviewing the nursery's expenses. You create this spreadsheet:

Expense	Amount per week (£)
Gas & Electricity	75.13
Food	62.95
Activity materials	41.92

How much does the nursery spend each week?

Write the answer in the box below.   *(1 mark)*

Answer: £_____

Open Awards

3.

Calculate 14.73 + 18.49   (1 mark)

Show your calculations and/or workings out here:

Write your answer in this box.

AQA

4.

Work out   7.28 ÷ 4

[1 mark]

Answer _____

5.

Work out 0.2×0.4

[1 mark]

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Answer   _____

6.

Ahmed wants to buy a laptop.

He can either

pay the cash price of £689.95

or

pay £73.50 per month for 10 months.

How much **more** does the laptop cost if he pays for it monthly?

[3 marks]

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Answer £ _____

Calculator Questions

NCFE

1.

John buys food in preparation for his opening day.

Ingredients	Price per item	Number of items	Total price per ingredient
Cabbage	64p	5	
Pack of carrots	30p	20	
Pack of tomatoes	£1.25	11	
Cucumbers	50p	9	
Pack of onions	£1.00	15	
		Total (£)	

Complete the table to show how much has John spent.

[2 marks]

2.

The empty cycle bags weigh 0.76 kg each.

Asha says, "Two of these cycle bags together will weigh less than 1.6 kg."

Is Asha correct? Explain your answer.

[1 mark]

Your answer:

City & Guilds

3.

$74035.52 \div 3.7 =$

(1 mark)

Highfield

4.

Calculate 7.26 ÷ 24.2

Write the answer in the box below.

(1 mark)

Answer: _____

5.

Calculate 2.002 × 0.9

Write the answer in the box below.

(1 mark)

Answer: _____

Open Awards

6.

Ryan has collected £3697.40 from the 380 ticket sales. The football club will donate £2.94 from each ticket to charity.

How much money will be left after the donation?   (2 marks)

Show your calculations and/or workings out here:

Write your answer in this box.

AQA

7.

In the next week, the total income at the restaurant is £14 800
The table shows the costs to run the restaurant that week.

	Amount (£)
Wages of chefs	210 hours at £9.35 per hour
Wages of waiters	570 hours at £7.90 per hour
Other costs	£3700

Work out the profit for the week.

[5 marks]

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Answer £ _____

8.

You pay £17.99 for luggage weighing up to 15 kg

You pay an extra amount for each additional kilogram of luggage.

      Jo's luggage weighs 19 kg

      She pays £23.99

Steve's luggage weighs 22 kg

How much does he pay?

[4 marks]

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Answer £ _____

9.

The tank in Ian's car can hold 11.6 gallons of petrol.
The petrol gauge shows how full the tank is.

Ian's car travels 46 miles for each gallon of petrol.
The concert is 70.3 miles from his home.

Is there enough petrol in the car to get to the concert **and back**?
You **must** show your working.

[4 marks]

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10.

Vikki and Zach work part-time in a hotel.

Vikki works on the reception desk.
Her normal rate of pay is £9.65 per hour.
She is paid double for working on a bank holiday.

One week she works for 30 hours in **total**.

26 of these hours are at her normal rate of pay.

The other hours are on a bank holiday.

Work out her total pay for the week.

[4 marks]

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Answer £_____

11.

Zach is a porter in the hotel.

He takes the guests' luggage to their rooms.

He is paid £8.10 per hour.

Here are the hours he worked one week.

Monday	5 pm to 9 pm
Thursday	3 pm to 6 pm
Saturday	10 am to 2 pm

Was he paid more than £90 for the week?
You **must** show your working.

[3 marks]

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12.

Jack decides to visit Turkey in July.

The table shows the costs for a holiday in July.

Date of travel to Turkey	Price per person for half board		
	7 nights	10 nights	14 nights
1 to 10 July	£489	£630	£758
11 to 18 July	£515	£642	£760
19 to 31 July	£648	£816	£937
Upgrade to All Inclusive for £21.50 per person per night			

Jack wants to travel on 12 July and stay for 14 nights.

He has £1100 to pay for the holiday.

Can he afford to upgrade to All Inclusive for all 14 nights?
You **must** show your working.

[4 marks]

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13.

Sandra is shopping for items of school uniform for her children Fred and Beth.

The shopping list below shows the prices of the items Sandra needs to buy.

Fred	Beth
2 school jumpers - £17.50 each	2 packs white shirts - £11.99 per pack
3 grey trousers - £10.75 each	2 skirts - £9.50 each
1 sports polo shirt - £14	1 sports polo shirt - £14.50
1 pack white shirts - £12.95 per pack	1 sports skort - £9
School shoes - £45	1 rugby shirt - £22.95
	School shoes - £38

Fred says,

"The total cost of my uniform is lower than Beth's."

Is Fred correct?
You **must** show your working.

[5 marks]

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14.

The table shows the costs for making the 50 handbags.

	Cost for 50 handbags
Leather	£252.50
Chain	£33.50
Fasteners	£119.50
Other costs	£87.00

Jon expects to sell all 50 bags.

He wants to make at least £3.50 profit on each bag.

Work out the **minimum** price he should sell each bag for.

[4 marks]

Answer £ _____

15.

Spencer works from home for a call centre.

Spencer works

   3 days a week

   from 7.30 am until 12 noon each day.

He is paid £151.47 per week.

Is this **more than** £11 per hour?

You **must** show your working.

[4 marks]

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