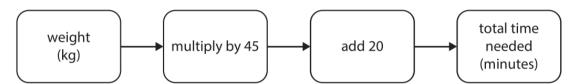
Non-calculator Questions

Edexcel

1.

Alex is going to cook a chicken.

He uses this rule to work out the total time needed to cook the chicken.



The weight of the chicken is 3 kg.

Use the rule to find the total time needed to cook the chicken. Give your answer in minutes.	(3)
	minutes

NCFE
IVCI L
2.
Dennis thinks he is spending too much money on fuel for his car.
He uses this formula to work out how much fuel in litres he uses in a year.
Fuel used in litres = Distance travelled in miles * 4.5 Miles per gallon
Last year he travelled 10 000 miles.
His car did 40 miles per gallon .
How many litres of fuel did Dennis use last year?
[3 marks

Your answer:

litres

Open Awards

3.

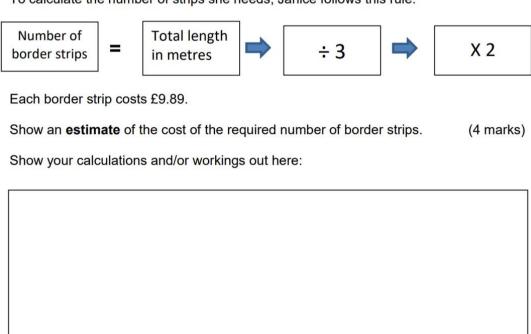
Janice wants to put border strips around **three** sides of her square lawn. The length of one side of the lawn is 14 metres.



Border strip

Write your answer in this box.

To calculate the number of strips she needs, Janice follows this rule:



3

AQA		
١.		
Carly wa	nts to hire a hall for the party.	
The char	ge for hiring the hall is worked out using this formula.	
	Charge = £50 + £30 × number of hours it is hired for	
Carly is o	charged £140 for hiring the hall.	
For how	many hours does she hire the hall?	
		[2 marks]
	Answer	

Calculator Questions

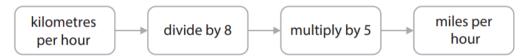
Edexcel

1.

Ryan will drive his car in Spain.

The speedometer in the car shows the speed in miles per hour only. He will be driving on a road with a speed limit of 100 kilometres per hour.

Ryan uses this rule to find this speed in miles per hour.

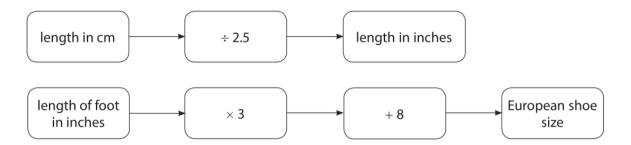


Ryan thinks that 70 miles per hour is the same as 100 kilometres per hour.

Is Ryan correct?	(3)
	(3)

Joanne is buying a pair of shoes in Europe. The length of her foot is 27.5 cm.

Joanne uses these rules to work out her European shoe size.



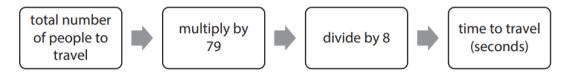
Joanne thinks her European shoe size is 38

Is Joanne correct? Show why you think this.	(4)

Natasha is designing a building with a restaurant on the top floor.

She needs to know how long it will take for a total of 40 people to travel in the lift from the ground floor to the restaurant.

Natasha uses this formula.



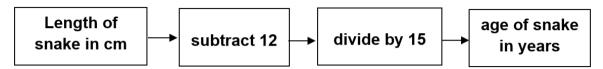
Natasha thinks it will take more than 6 minutes for a total of 40 people to travel in the lift from the ground floor to the restaurant.

Is Natasha correct? Show why you think this.	(4)

NCFE

4.

The age of a young Garter snake can be estimated using this rule:



An adult Garter snake is about 72 cm long.

What age is a Garter snake when its length is 72 cm?

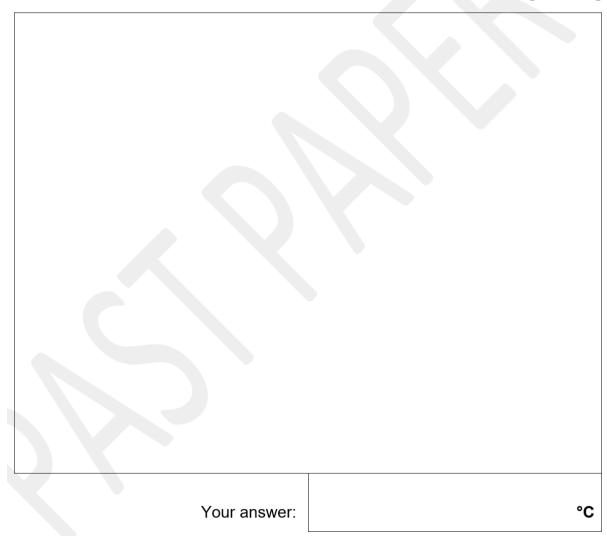
	[3 marks]
Your answer:	years

In 2018, the average winter temperature in Svalbard was –4°F
In 2019, this increased by 9°F
Amena wants to work out the average winter temperature in 2019 in °C
She uses this rule:

Temperature in °F Subtract 32 → Multiply by 0.6 Temperature in °C

What was the 2019 average winter temperature in °C?

[3 marks]



City & Guilds

6.

A gardener needs to order fertiliser for a piece of land. The piece of land is a square with sides measuring 8 metres.

This formula shows how many **grams** of fertiliser she needs.

grams of fertiliser needed = length in metres x width in metres x 25

The supplier sells these bags of fertiliser.



Which bag of fertiliser should the gardener order? Include figures to explain your answer.

Show all your working.	
	ka haa
Explanation	kg bag

(3 marks)

The formula below can be used to calculate interest on a savings account after one year:

amount put into account x interest rate as a decimal

A woman puts £2 500 into an account. The interest rate is 5%.

What will be in the account after one year?

Show your working	
	£

(3 marks)

Level 1 Maths Formulae Exam Questions

Highfield		
8.		
Ben and Jo work out how much money they can borrow.		
Ben earns an average of £538.50 a week.		
• Jo earns £2,725.50 a month.		
They have been told to use this formula to work out the maximum ar	mount of money that they	can borrow.
Total amount of money = $3.5 \times Ben's$ yearly wage	+ 3.5 × Jo's yearly wage	2
They think they will be able to borrow more than a quarter of a n	nillion pounds. Are they	correct?
Show your working out and write the answer in the box below.		(5 marks)
	Answer:	

Α(QA
9.	
	Personal finance
	You can use these steps to work out the amount of income tax you pay each month .
	Step 1 Work out monthly salary – 987.5
	Step 2 Work out answer to Step 1 ÷ 5
	Cho has a salary of £24 000 per year .
	Helen has a salary of £1720 per month .
	How much more income tax does Cho pay than Helen each month ? [4 marks]

Answer £

Beth earns pocket money by doing jobs at home after school.

Sandra uses this formula to work out how much pocket money Beth receives each week.

Weekly pocket money = £2.50 \times number of jobs done + £5

Beth wants to buy a pair of trainers for £70

She saves her pocket money for 3 weeks.

She did

- 5 jobs in the first week
- 9 jobs in the second week
- 10 jobs in the third week.

Is this enough to buy the trainers? You **must** show your working.

,	J		[4 marks]