

Non-calculator Questions

Edexcel

1.

Lizzie buys 3 clocks for a total cost of £50 at a car boot sale.

She sells 2 of the clocks for £22 each and the other clock for £20

Lizzie thinks she has made a profit of over 30% of the cost of the clocks.

Is Lizzie correct?
Show why you think this.

(4)

NCFE

2.

Hannah goes to another car boot sale to sell some items.

She paid £155 for the items she hopes to sell.

How much will Hannah need to sell these items for to make a 17.5% profit?

[3 marks]

Blank area for working out the answer.

Your answer:

£

3.a)

Sam is a volunteer for CHAD, a charity that supports children.

Charities are put into categories according to the amount of money they raise each year.

Last year, CHAD raised five hundred and sixty-nine thousand, eight hundred and one pounds.

Tick the box next to the category that CHAD is in.

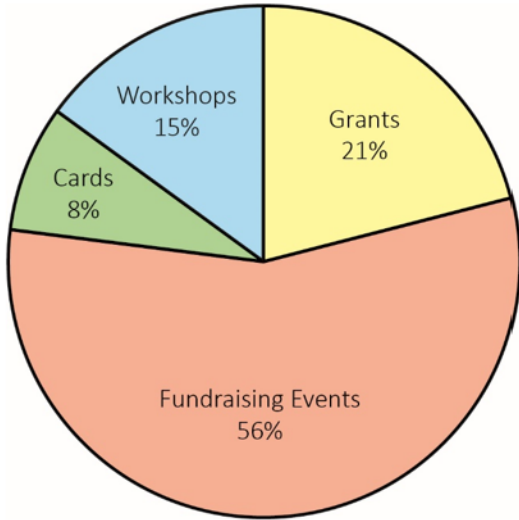
[1 mark]

	Category	Money raised each year (£)	
		Minimum	Maximum
<input type="checkbox"/>	Micro	0	9 999
<input type="checkbox"/>	Small	10 000	99 999
<input type="checkbox"/>	Medium	100 000	999 999
<input type="checkbox"/>	Large	1 000 000	9 999 999
<input type="checkbox"/>	Major	10 000 000	99 999 999
<input type="checkbox"/>	Super-major	100 000 000	no maximum

b)

This year, CHAD aim to raise £626 000

The pie chart shows where the funds will come from:



So far, CHAD have raised £95 280 from grants.

How much more money do they aim to raise from grants this year?

[3 marks]

Blank area for the student to show their working out.

Your answer:

£

4.

Noah's hobby is building models using plastic blocks.

He is making a model of a town.

Noah has opened a new model building set.

Inside is a large bag of coloured blocks:

Colour	Number
White	75
Red	276
Yellow	45
Green	50
Blue	154

What percentage of the blocks are red?

[3 marks]

Your answer:

%

City and Guilds

5.

What is 14% of 200?

(1 mark)

6.

What is 42% of 400?

(1 mark)

Highfield

7.

Calculate:

15% of 390

Write the answer in the box below.

(1 mark)

<p>Answer: _____</p>

AQA

8.

Work out 19% of 150

[2 marks]

Answer _____

9.

Lucas buys a 450 g packet of biscuits.



He reads the label.

Sugar content	26.4 g per 100 g
Maximum recommended daily amount (MRDA) of sugar	30 g

Lucas eats 2 biscuits.

Work out the percentage of the MRDA of sugar in the 2 biscuits.

[4 marks]

Answer _____ %

Calculator Questions

Edexcel

1.

Work out 37% of 4618.57
Give your answer to 1 decimal place.

(2)

2.

200 people apply to work at a new office.
49 of these people are employed.

Work out 49 as a percentage of 200

(2)

%

NCFE

3.

Icebergs are large lumps of ice that float in the sea.



Tom reads that the icebergs float because the density of ice is less than the density of seawater.

The density of ice is 0.92 g per ml and the density of the sea is 1.03 g per ml

Calculate 0.92 as a percentage of 1.03

Give your answer as a percentage to the nearest whole number.

[2 marks]

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Your answer:

%

4.

Lottie plays basketball.

She does some shooting practice.

She takes 75 shots.

33 of these shots go in the basket.

What percentage of her shots go in the basket?



[2 marks]

St Paper

Your answer:

%

5.

Judy reads an article about apprentices.

In 2019, there were 742 400 apprentices in England.
Of these, 51 000 apprentices were in the construction sector.

Judy thinks that in 2019, more than 6% of apprentices in England were in the construction sector.

Is she correct?

Show how you decide.

[2 marks]

PAPER	
Your answer:	

City & Guilds

6.

What is 12% of £5 300?

£

(1 mark)

Highfield

7.

Calculate 13% of £255

Write the answer in the box below.

(1 mark)

Answer: £_____

8.

A company asked its 230 employees if they would like more flexible working hours. Of those asked, 198 said yes.

What percentage of the employees said yes?

Show your working and write your answer in the box below.

(2 marks)

Answer: _____%

Level 2 Maths Percentages Exam Questions

9.

Calculate 23% of 591

Write the answer in the box below.

(1 mark)

Answer: _____

10.

A survey asked 380 customers if they were satisfied with their current phone network provider. Of those asked, 312 said yes.

What percentage of the customers said no?

Show your working and write the answer in the box below.

(2 marks)

Answer: _____%

11.

Jude earns £1,653 per month.

He pays £578.55 in rent.

What is £578.55 as a percentage of £1,653?

Show your working out and write the answer in the box below.

(2 marks)

Answer: _____ %

Highfield

12.

Sarah helps to organise a family fun day charity event each year.

Last year, 120 people attended the event each paying a £2.50 entry fee.

	Money taken during the event (£)	Percentage of money taken (%)
Entry fees		
Cake stall		19%
Bouncy castle		32%
Tombola		9%
Wheel of fortune		15%

It cost £175 to hire the Village Hall for the event and a further £85 for prizes.

How much profit did Sarah make for charity? (4 marks)

Show your calculations and/or workings out here:

Write your answer in this box.

AQA

13.

In a year, Alex wrote 1460 posts promoting companies.
She was paid £75 for each post that had at least 65 000 views.
In total, she was paid £36 000

What percentage of her posts had at least 65 000 views?

[3 marks]

Answer _____ %