

1. Eating

People were asked if they were considering changing what they eat.

29% of the people asked said yes.

Of these, 23% said they were considering becoming vegetarian.

What **percentage** of the **people asked** said they were considering becoming vegetarian?



1 mark

2. Clothes Shop

A clothes shop had a closing down sale.
The sale started on Tuesday and finished on Saturday.

For each day of the sale, prices were reduced by 15% of the prices on the day before.

- (a) A shirt had a price of £19.95 on Monday.
Kevin bought it on Wednesday.

How much did he pay?

Show your working.



£

2 marks

(b) Ghita bought a dress on Tuesday for £41.48

What was its price on Monday?

Show your working.



£

2 marks

(c) A jacket had a price of £49.95 on Monday.

What was its price on Friday?

Show your working.



£

2 marks

(d) Another shop is reducing its prices each day by **12%** of the prices on the day before.

How many days would it take for its original prices to be reduced by more than 50%?

Show your working.



..... days

2 marks

3. A shop had a sale. All prices were reduced by 15%



A pair of shoes cost **£38.25** in the sale.

What price were the shoes before the sale?

Show your working.



.....

2 marks

4. Births

Look at the table:

	1961	1994
England	17.6	
Wales	17.0	12.2

- (a) In England, from 1961 to 1994, the birth rate **fell** by 26.1%.
What was the birth rate in England in 1994?

Show your working.



.....

2 marks

- (b) In Wales, the birth rate also fell.
Calculate the **percentage fall** from 1961 to 1994.

Show your working.



..... %

2 marks

- (c) From 1961 to 1994, the birth rates in Scotland and Northern Ireland fell by the **same** amount.

The **percentage fall** in Scotland was greater than the percentage fall in Northern Ireland.

Put a tick (✓) by the statement below which is true.



In 1961, the birth rate in Scotland was higher than the birth rate in Northern Ireland.
In 1961, the birth rate in Scotland was the same as the birth rate in Northern Ireland.
In 1961, the birth rate in Scotland was lower than the birth rate in Northern Ireland.
From the information given, you cannot tell whether Scotland or Northern Ireland had the higher birth rate in 1961.

1 mark

5. Percentage change

(a) One calculation below gives the answer to the question

What is 70 increased by 9%?

Tick (✓) the correct one.

70×0.9

70×1.9

70×0.09

70×1.09

1 mark

Choose one of the other calculations.

Write a question **about percentages** that this calculation represents.



calculation chosen:

question it represents:

1 mark

Now do the same for one of the remaining two calculations.



calculation chosen:

question it represents:

1 mark

(b) Fill in the missing decimal number.



To decrease by 14%, multiply by

1 mark

(c) A **10% increase** followed by **another 10% increase** is **not** the same as a total increase of 20%

What is the total percentage increase?

Show your working.



..... %

2 marks