

Q1.

Work out 51% of 400

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Answer

(Total 2 marks)

Q2.

A gym has 275 members.

- 40% are bronze members.
- 28% are silver members.
- The rest are gold members.

Work out the number of gold members.

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Answer

(Total 3 marks)

Q3.

Hayley and Tom have £2000 to spend on food at their wedding.

Here are their two options.

Wonderful Weddings!	
Normal price	£32 per person
Special offer	
10% off	

Kim the Caterer	
Number of people	Price per person
100 & over	£24.50
80 to 99	£26.50
60 to 79	£28.50
up to 59	£30.50

Work out the **maximum** number of people they can pay for.

Show working to compare the maximum number of people for **both** options.

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Answer

(Total 5 marks)

Q4.

24 boys, 45 girls and 281 adults are the members of a badminton club.

50 more children join the club.

The number of girls is **now** 18% of the total number of members.

How many of the 50 children were **boys**?

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Answer

(Total 4 marks)

Q5.

The cash price for a boiler is £2000
 Customers can pay the cash price or pay monthly.

<p>Cash Price</p> <p>£2000</p>

<p>Pay Monthly</p> <p>60 monthly payments of £40</p>

Work out the percentage increase from the cash price when paying monthly.

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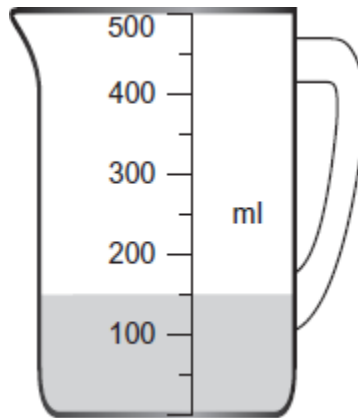
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Answer %

(Total 4 marks)

Q6.

Some water is shown in a 500 ml measuring jug.



What percentage of the jug is filled with water?

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Answer %

(Total 2 marks)

Q7.

A company claims the following miles per gallon for two cars.

Car A	68 miles per gallon
Car B	55 miles per gallon

The driver of car *A*

gets 30% **fewer** miles per gallon than claimed and drives 15 000 miles.

The driver of car *B*

gets three-quarters of the miles per gallon claimed and drives 12 000 miles.

Which driver uses more fuel?
You **must** show your working.

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Answer

(Total 5 marks)

Q8.

A drink is made by mixing 650 ml of water with 150 ml of fruit juice.

What percentage of the drink is fruit juice?

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Answer %

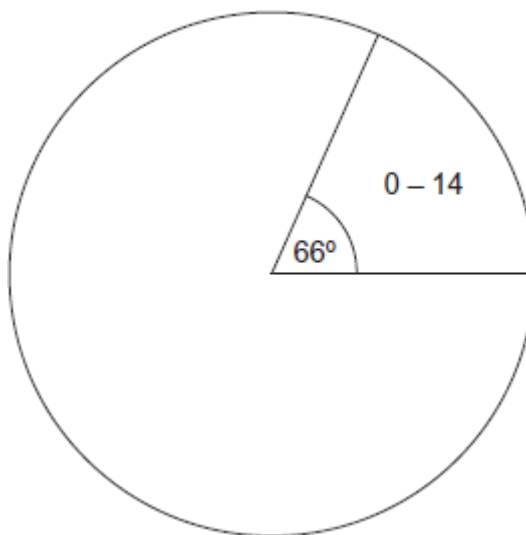
(Total 2 marks)

Q9.

In 2011 there were 3.22×10^7 females in the UK.
This was 51% of the whole population.

The pie chart shows an estimate of the males aged 0 – 14 years old in 2011.

Male population in 2011



Source: <http://www.ons.gov.uk>

Use this information to work out the number of males aged 0 – 14 years old in 2011.
Write your answer in standard form.

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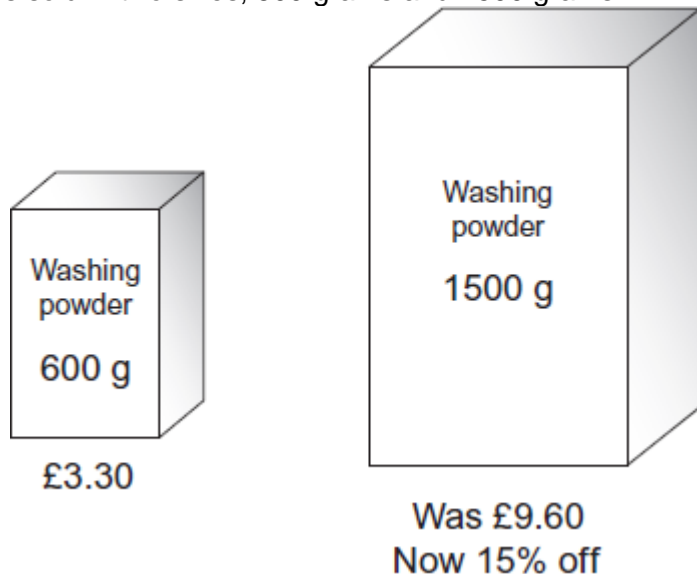
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Answer

(Total 6 marks)

Q10.

Washing powder is sold in two sizes, 600 grams and 1500 grams.



Which size is better value for money?
You **must** show your working.

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Answer

(Total 6 marks)

Q11.

A family uses 300 units of gas.

Each unit of gas costs 19p without VAT.
VAT of 5% is added to the bill.

Work out the total gas bill.

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Answer £

(Total 4 marks)

Q12.

Abby and Judy share some money.
Abby gets 25%

- (a) Write Abby's share : Judy's share as a ratio.
Give your answer in its simplest form.

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Answer :

(2)

- (b) Judy gets £19.50
How much does Abby get?

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Answer £

(2)
(Total 4 marks)

Q13.

- (a) Which calculation works out the total amount after decreasing £50 by 8%?
Circle the correct answer.

$£50 \times 0.08$ $£50 \times 0.92$ $\frac{£50}{0.08}$ $\frac{£50}{1.08}$

(1)

- (b) Adrian is going on holiday.

He has two bags.

The mass of one bag is 9 kg

This is 45% of the total mass of the two bags.

What is the mass of his other bag?

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Answer kg

(3)

(Total 4 marks)