

Q1.

Here are some numbers.

9.6 12.6 15.4 7.6 12.4 17.4

Write the numbers in pairs so that the **sum** of the numbers in each pair is the same.

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Answer and

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(Total 2 marks)

Q2.

Ranjit has six coins in his pocket.

If he picks **five** of the coins

the most he could pick is £4.60

the least he could pick is £2.70

How much money does he have altogether?

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Answer £.....

(Total 4 marks)

Q3.

Textbooks are stored on two shelves.

Each shelf is 0.72 metres long.

Each textbook is 30 millimetres wide.

Not drawn accurately



Can 50 textbooks be stored on these shelves?

You **must** show your working.

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Answer

(Total 3 marks)

Q4.

Sam wants to buy a camera for £345

He has already saved £96

Each week

his pay is £80

he saves 30% of this pay.

How many **more** weeks must he save?

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Answer weeks

(Total 4 marks)

Q5.

(a) Work out 2.4×0.002

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Answer

(1)

(b) Write 1.2×10^{-5} as an ordinary number.

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Answer

(1)

(c) Write 2 500 000 in standard form.

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Answer

(1)
(Total 3 marks)

Q6.

Which of these numbers is 6 **less** than -1.4 ?

Circle your answer.

-8.4

-7.4

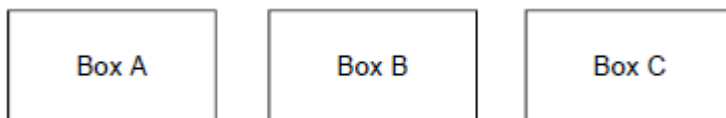
-2.0

-4.6

(Total 1 mark)

Q7.

Three boxes contain counters.



There are 62 counters in total.

The total number of counters in box A and box B is 34

The difference between the number of counters in box A and box C is 9

Work out the number of counters in each box.

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Box A Box B Box C

(Total 3 marks)

Q8.

Alice makes cards.

Each card uses 42 cm of ribbon.

She has 1000 cm of ribbon.

(a) Work out the **maximum** number of cards she can make.

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Answer

(2)

(b) How much ribbon will be left over?

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Answer cm

(1)

(Total 3 marks)

Q9.

Mr Jones works for five days each week.

If he uses his car to travel to work,

each day he drives a total distance of 24.2 miles
 his car travels 32.3 miles per gallon of petrol

petrol costs £1.27 per litre.

If he uses the bus to travel to work, he can buy a weekly ticket for £19.50

Use 1 gallon = 4.5 litres

Is it cheaper if he uses his car or the bus to travel to work?

You **must** show your working.

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Answer

(Total 5 marks)

Q10.

Liz buys a car for £7500

She pays a deposit of £1875

She pays the rest in 36 equal monthly payments.

Work out the amount of each monthly payment.

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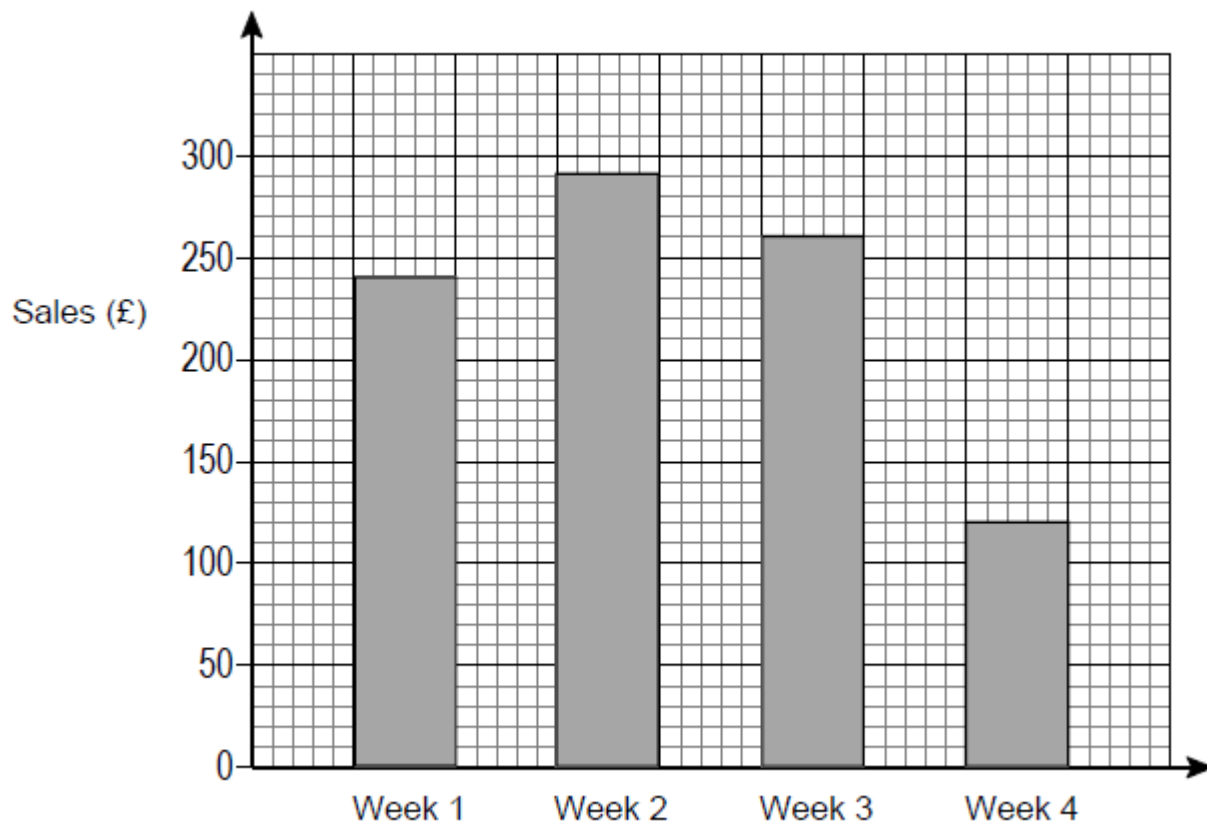
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Answer £.....

(Total 3 marks)

Q11.

Zayn records his weekly sales.



Every week his costs are £87.50

(a) Work out his profit in Week 1

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Answer £.....

(2)

(b) His sales in Week 4 were half of his sales in Week 1

Zayn says,

“This means that my profit in Week 4 was half of my profit in Week 1”

Is he correct?

You **must** show your working.

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(2)

(Total 4 marks)

Q12.

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)

Q13.

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)

Q14.A bottle holds 1600ml of water.

300 ml cups are filled from the bottle.

(a) How many cups can be filled from the bottle?

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Answer

(2)

(b) How much water is left in the bottle?

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Answer ml

(1)

(Total 3 marks)

Q15.

CAKES	
Large	80p each
Small	50p each

Work out the total cost of 3 large cakes and 10 small cakes.
Give your answer in pounds.

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Answer £

(Total 3 marks)

Q16.(a) Circle the **two** numbers that add up to 100

21 34 35 65 76

(1)

(b) Circle the **two** numbers that are even.

21 34 35 65 76

(1)

(c) The number 31 is 5 less than the square number 36

Circle the number that is 5 **less** than a square number.

21 34 35 65 76

(1)

(d) Circle the number that is 5 **more** than a square number.

21

34

35

65

76

(1)
(Total 4 marks)