

N122 Percentages 1

Q1.

Work out 15% of 80

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(Total for question = 2 marks)

Q2.

Work out 234% of 150

.....
(Total for question = 2 marks)

Q3.

Here is part of an advert for a driving school.

8 out of 10 of the people we teach
pass the driving test first time

Ali talked to 56 people who had been taught to drive by the driving school.
43 of these people passed the driving test first time.

Does this support what is said in the advert?
You must show how you get your answer.

(Total for question = 3 marks)

Q4.

A television has a normal price of £675
In a sale the price is reduced by 32%.
Work out the price of the television in the sale.

£

(Total for question = 3 marks)

Q5.

Fayyaz bought a mobile phone for £180
He sold it at a profit of 22%

How much money did Fayyaz sell the mobile phone for?

£

(Total for question = 2 marks)

Q6.

Trevor buys a boat.
The cost of the boat is £14 200 plus VAT at 20%
Trevor pays a deposit of £5000
He pays the rest of the cost in 10 equal payments.
Work out the amount of each of the 10 payments.

£

(Total for question = 4 marks)

Q7.

A number of students go on a coach trip.

The cost of hiring the coach is £180

The school pays 80% of this cost.

The students pay the rest of the cost.

Each student pays £1.50

Work out the number of students on the coach trip.

.....
(Total for question = 4 marks)

Q8.

Claire buys a new car for £5700

She pays a deposit of 12%

She then pays the rest of the cost in 15 equal monthly payments.

How much is each monthly payment?

£

(Total for question = 3 marks)

Q9.

A bonus of £2100 is shared by 10 people who work for a company.
40% of the bonus is shared equally between 3 managers.
The rest of the bonus is shared equally between 7 salesmen.

One of the salesmen says,

"If the bonus is shared equally between all 10 people I will get 25% more money."

Is the salesman correct?

You must show how you get your answer.

(Total for question = 5 marks)

Q10.

Adam gets a bonus of 30% of £80

Katy gets a bonus of £28

Work out the difference between the bonus Adam gets and the bonus Katy gets.

£

(Total for question = 3 marks)

Q11.

There are 800 students at a school.

Each student has either a school dinner or a packed lunch.

31% of the students have packed lunches.

55% of the students are boys. 60% of the boys have school dinners.

How many girls have packed lunches? You must show all your working.

.....

(Total for question = 4 marks)

Q12.

In September Sharon paid £565 for some books.
She sold all the books for a total of £780

In October Sharon bought and sold some more books.
The total profit she made in October was 13% greater than the total profit she made in September.

In November Sharon wants to pay a bill of £30

Sharon thinks that the 13% extra profit she made in October will be enough to pay this bill.

Is Sharon correct?

(Total for question = 3 marks)

Q13.

Jack's driving school has two offers.

<p style="text-align: center;">Offer 1</p> <p style="text-align: center;">First driving lesson free</p> <p style="text-align: center;">All other driving lessons normal price</p>
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<p style="text-align: center;">Offer 2</p> <p style="text-align: center;">All driving lessons</p> <p style="text-align: center;">5% off the normal price</p>

The normal price of a driving lesson is £24

Douglas is going to have 12 driving lessons.

Which is the cheaper offer for 12 driving lessons, Offer 1 or Offer 2?

You must show how you get your answer.

(Total for question = 3 marks)

Q14.

Norma makes bags.

She makes 17 bags an hour.

Norma works for 6 hours each day, 5 days a week.

Each bag is checked.

If the bag is perfect, it is put in a box.

When there are 12 bags in a box it is full.

One week 90% of the bags Norma made were perfect.

Work out the number of boxes completely filled with bags made by Norma.

.....
(Total for question = 5 marks)

Q15.

In a sale, normal prices are reduced by 17%.

The normal price of a washing machine is reduced by £42.50

Work out the sale price of the washing machine.

£

(Total for question = 3 marks)