

Can I solve a variety of word problems?

1. a) Round each number in the calculation $88745 - 56642$ to the **nearest ten thousand**.

Subtract these rounded numbers to give an approximate answer.

- b) Calculate the actual difference between the two numbers.

2. Calculate $£3856.56 + £5673.78 + £347.45$

3. At the beginning of the year, there was $£8452.64$ in the school budget.

By the end of the year, $£7864.12$ had been spent.

How much is left in the school fund?

4. At a weekend summer fair, $£14673$ was raised on the Saturday and $£16432$ was taken on the Sunday.

At a similar fair in winter, $£18347$ was raised on the Saturday and $£10284$ was taken on the Sunday.

i) How much was raised altogether?

ii) How much more was raised at the summer fair than at the winter fair?

5. Here are some distances:

Journey	Distance (kilometres)
London to Paris	934 km
London to Rome	1461 km
Paris to Rome	1186 km

A plane flies from London to Rome and then on to Paris.

How much further is this than flying direct to Paris from London?

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6. Round these numbers to the **nearest thousand** to find an estimated answer.

$$63751 + 5624 + 9431$$

7. A ship arrived at a port carrying 49657 tonnes of cargo. 3598 tonnes of cargo were unloaded. The ship was then loaded with 35861 tonnes before leaving the port.

How much cargo was on the ship?

8. The organisers of a concert raise £154763 in ticket sales and £14763 selling merchandise.

They have to pay the groups £43650 and pay other expenses of £25715.

How much money do they make for themselves?

9. The populations of the three largest towns in a county were 346754, 124534 and 52971.

What was the total population of these three cities?

10. A company has two factories that make mobile phones.

The company records the number of mobile phones made each year in a table.

	Hillside Factory	Green Lane Factory
2012	341675	275643
2013	294631	413054

a) How many more mobile phones were made in 2013 than in 2012 by the Green Lane Factory?

b) How many more mobile phones were made by the Hillside factory than the Green Lane Factory in 2012?

11. I am thinking of two numbers.

One of the numbers is 71934.

The difference between this number and the other is 43341.

What is the other number?

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Extension

1. A builder turns an old house into four flats.
He sells them for £125500, £135750 and £155000.
But he had to pay £375000 to buy the house, he paid his workers £37675 and he had to pay £85672 for materials.
How much money did he make?
2. Katy adds 587645, 674677 and 28546.
To check she rounds the numbers to the **nearest hundred thousand**.
She says, 'My answer should be about 1,300,000,'
What mistake could Katy have made in her rounding?
3. Laura buys a round the world airline ticket and books these flights.

Journey	Distance in km
London, UK to Hong Kong	9654
Hong Kong to Sydney, Australia	7362
Sydney, Australia to Rio de Janeiro, Brazil	13643
Rio de Janeiro, Brazil to Los Angeles, USA	10324
Los Angeles, USA to London UK	8558

How far did Laura fly in total?

4. A car dealer checks his stock of cars. He has 6 cars for sale.
The prices of the cars are:
£5000, £6700, £8400, £11450, 13450 and £14400.
He sells two cars and the total value of his stock is now £40,000.
What was the value of each of the two cars he sold?

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5. A football stadium has 48654 seats.
24651 of the seats are used by season ticket holders, 1644 seats are in boxes and 1423 are used by guests of the club.
How many seats are available for sale?

6. A factory has a stock of 51,764 boxes.
36,699 boxes are used.
How many boxes are left?

7. Use rounding to the **nearest ten thousand** to find an estimated answer to:
 $56833 + 48654 + 31542 + 83326$

8. Tom adds three numbers together and gets the total 845631.
Two of the numbers are 65743 and 42899
What is the third number?