

14.10.2021

LO: To solve multi step problems.

A Sweet factory offers guided tours. It has 4588 visitors in June and 7658 visitors in July. The visitor numbers for August were double the visitor numbers for June.

How many visitors did the sweet factory receive from June to August altogether?

4588	7658	9176
June	July	August

A shop is looking at how much money it made in profit in a month. In week 1 the shop made £2678 in sales and spent £896 on their staff wages. In week 2 they made £3459 in sales and spent £456 on their electricity bill. In weeks 3 and 4 they made £5983 in sales but had to pay £1675 for their rent.

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How much profit did the shop make by the end of the month?

$$\begin{aligned} \text{£}2678 + \text{£}3459 + \text{£}5983 &= \\ \text{£}12\,120 &\text{ in sales} \end{aligned}$$

$$\begin{aligned} \text{£}896 + \text{£}456 + \text{£}1675 &= \\ \text{£}3027 &\text{ in costs} \end{aligned}$$

$$\begin{aligned} \text{£}12\,120 - \text{£}3027 &= \\ \text{£}9093 &\text{ profit} \end{aligned}$$

Keeva is organising a cake sale. She has made 178 cakes and her friend Harry has made 167 cakes. They want to make sure that they have made enough cakes so that everyone has a chance to buy one. They have worked out that there are 350 children in their school. Now they need to work out if they have enough cakes for everyone to buy one.

Which child's method is correct? Explain your reasoning.



We need to add my total of cakes to your total of cakes, then subtract from 350 to see if we have enough.



We need to subtract my total of cakes from 350 and then add your total of cakes.

The most popular exhibit in a museum is the dinosaur exhibit. The least popular exhibit is the Iron Age exhibit. The difference in the number of visitors each exhibit had over a year was 9845. Each exhibit had more than 30,000 visitors but fewer than 50,000 visitors.

What are the possible visitor numbers for each exhibit? Once you have worked out one possible answer, explain how you could calculate all of the possible answers.

**Answers for each exhibit should be a number over 30 000 but less than 50 000, with a difference of 9845. The dinosaurs exhibit should be greater by 9845.**

**E.g. Iron Age = 31 001          dinosaurs = 40 846**

**To calculate subsequent answers, adjust your numbers. Add one to the number for one exhibit, whilst taking one from the number for the other exhibit.**

# Main Task

Cut out each question and write your answers with your working out underneath.

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 Kayap needs to run 2500 metres. In the first 10 minutes he runs 639m and in the second 10 minutes he runs 794m. How much further will he still need to run?

Barney bought a bubble making machine for £4.50, a pack of balloons for £3.00 and a fondue set for £9.99. He pays the cashier with a £20 note. How much change will he receive?

Chocolate bar £1.39  
 Pack of marshmallows: £2.47  
 Packet of sweets £1.76  
 Special Offer: Any 3 items for £4.10  
 How much money will Abbie save when using the special offer?

Mrs Perry bought 3941 pencils at the start of the year. In the first term 235 pencils were used, in the second term 765 pencils were used. How many pencils were left to be used in the final term?

Fish £3.55  
 Chips £1.29  
 Gravy £0.75  
 Peas £0.90  
 Nigel has £5.00. He wants to buy chips, fish and peas. How much more money will Nigel need?

A bottle holds 2 litres (2000 ml) of freshly squeezed orange juice. Dexter fills three glasses with orange juice. He puts 170 millimetres in each glass. How much orange juice is left in the bottle?

Jason and Ella are trying to find out how many star jumps they can do in two minutes. In the first minute, Jason completes 48 star jumps and Ella completes 23 star jumps. Their target was 157 star jumps. How many more star jumps will they have needed to complete in order to reach their target?

Adam is twice as old as Barry. Charlie is 3 years younger than Barry. The sum of all their ages is 53. How old is Barry?

The sum of two numbers is 11,339. The difference between the same two numbers is 1,209. Use the bar model to help you find the numbers.

A milkman has 250 bottles of milk. He collects another 160 from the dairy and delivers 375 during the day. How many does he have left? Do you agree with Tommy? Explain why.

Year 5 were performing a show to parents on Wednesday, Thursday and Friday. 178 parents watched the school performance on Wednesday. Then another 56 parents watched the school performance on Thursday. Tickets were sold to 250 parents in total. How many parents will watch the final performance on Friday?

Two children were discussing this word problem.

Some people are on a train. 175 people were on a train at one stop. 128 more people get on at the next stop. There are now 419 people on the train. How many people were on the train at the start of the journey?

Which child do you agree with? Explain your reasoning.

