

ACTIVITY 2 - GRANDAD'S VEGETABLE GARDEN

In Grandad's vegetable garden there are 27 rows of vegetables.
There are 18 rows of cabbages. The rest are carrots.



How many rows of carrots are there?



HINT

The question tells us what the whole is (What is it?). It also tells us what one of the parts is – so what are you trying to find out?

ACTIVITY 2 - GRANDAD'S VEGETABLE GARDEN

27

Rows of vegetables

Rows of cabbages

Rows of carrots

18

?

ACTIVITY 6 - LONDON MARATHON



John is running the London Marathon.
At the 17 mile marker he gets cramp in his leg

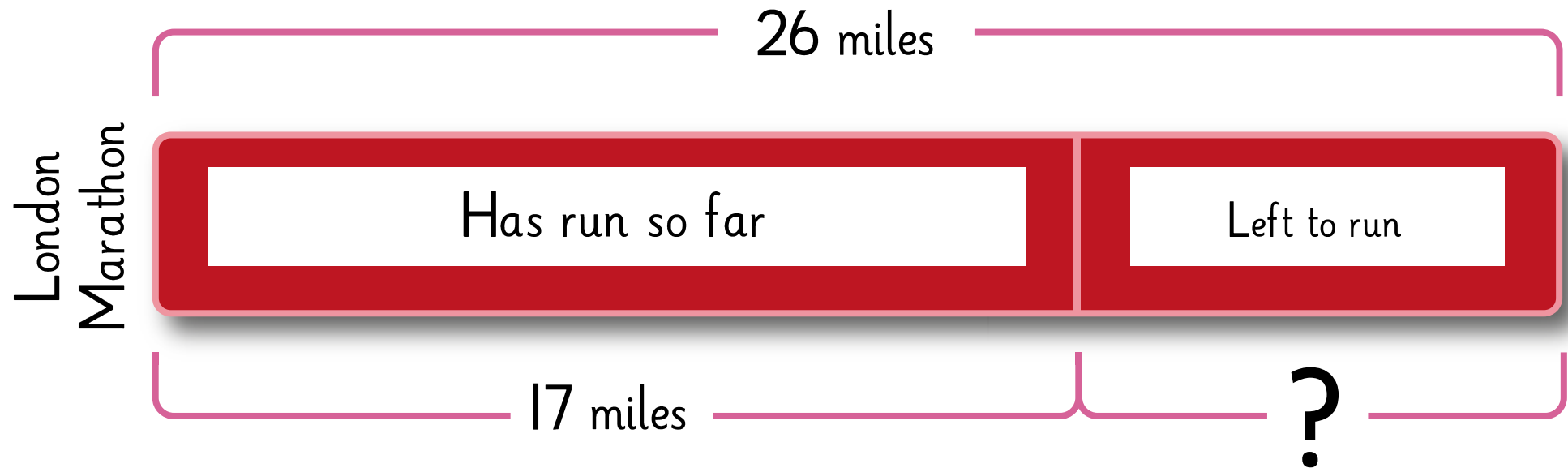


How many miles does he still have to run?

HINT

You need to know how long the London Marathon is – if you don't know you must find out before you start to draw the bar model. Your bar will represent the whole marathon. Once you know how long the whole marathon is, and how long he has already covered, you will see how far he has left to run – or at least – you will see how to work it out.

ACTIVITY 6 - BAR MODEL



ACTIVITY 13 - ANNA WENT SHOPPING

Before Anna went shopping, she had 45p. Afterwards, she had 32p.



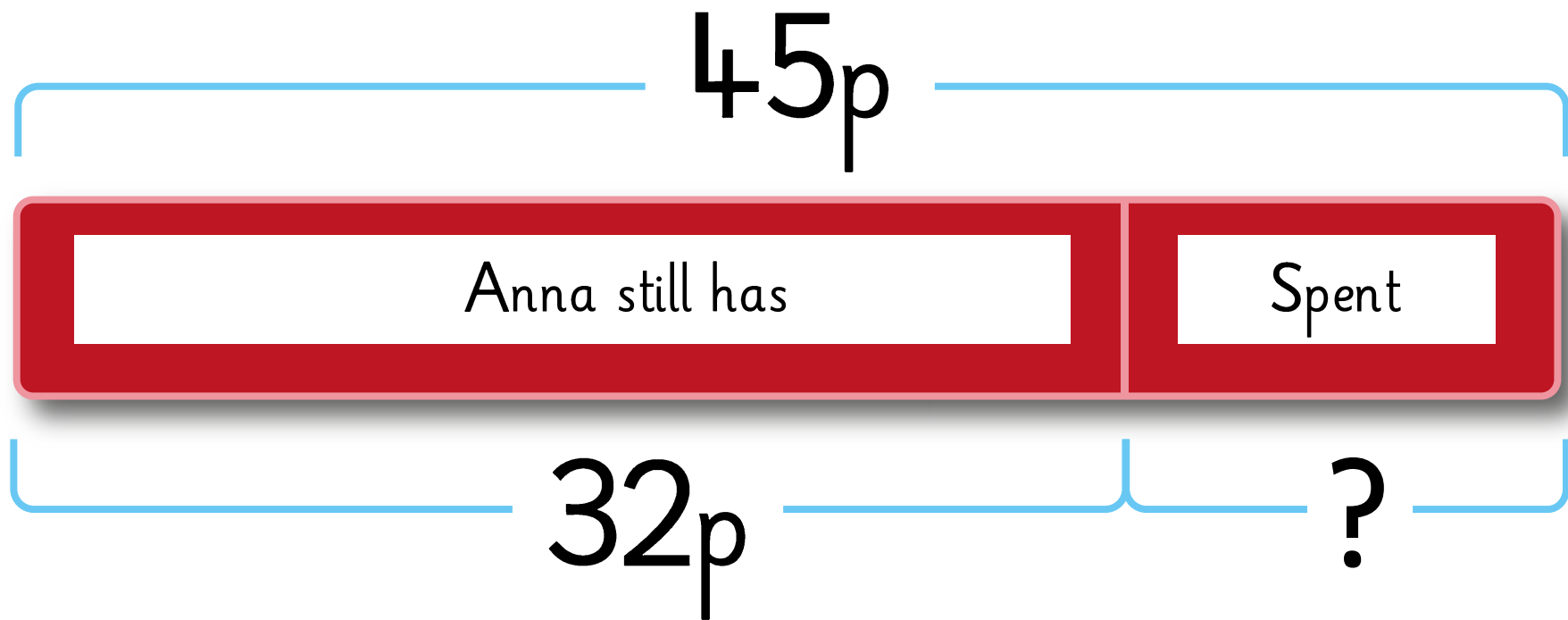
How much had she spent?



HINT

The bar should show the starting amount (the 'whole') and the finishing amount (the 'part' left afterwards). The 'part' that was spent will be the part that you will need to calculate.

ACTIVITY 13 - BAR MODEL



ACTIVITY 10 - BREAKFAST CEREAL

There are 2 boxes of breakfast cereal in Adam's basket. Together, they weigh 1165g.
The Honey Loops are 550g.

What do the Choco Puffs weigh?

550g - - - -



Honey loops



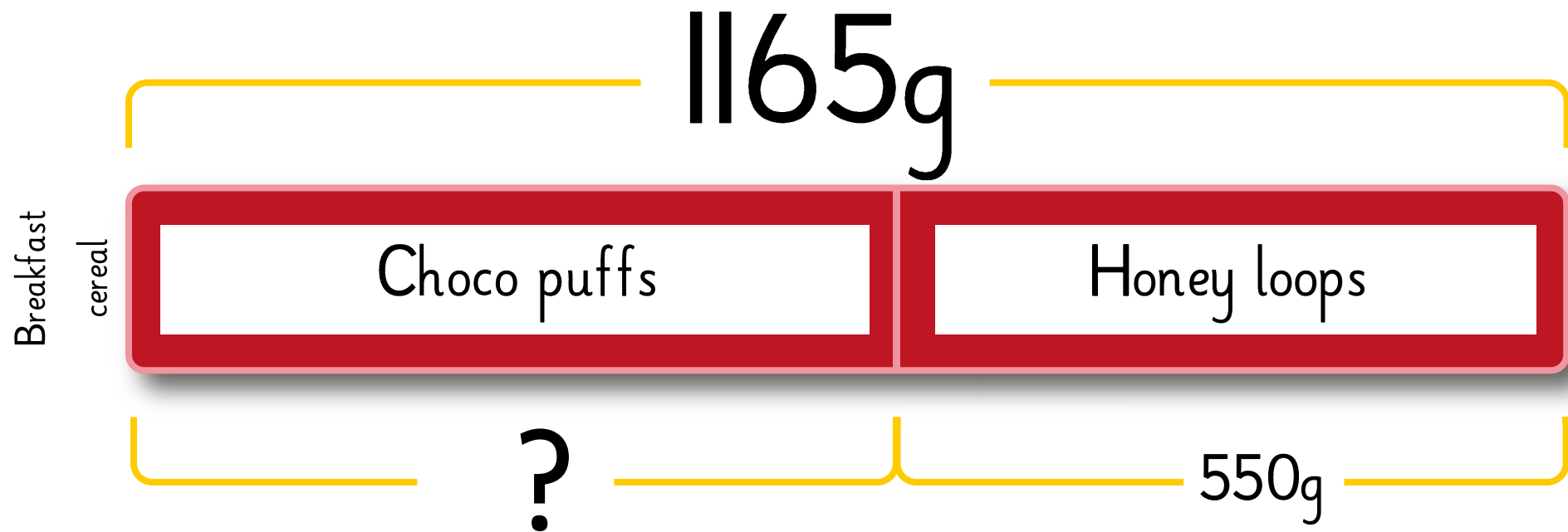
Choco puffs

- - - - ?

HINT

The question tells you the 'whole' and one of the 'parts'.

ACTIVITY 10 - BAR MODEL



ACTIVITY 17 - GAS BILL

My gas bill increased this year by 20% to £2400.

What was it last year?

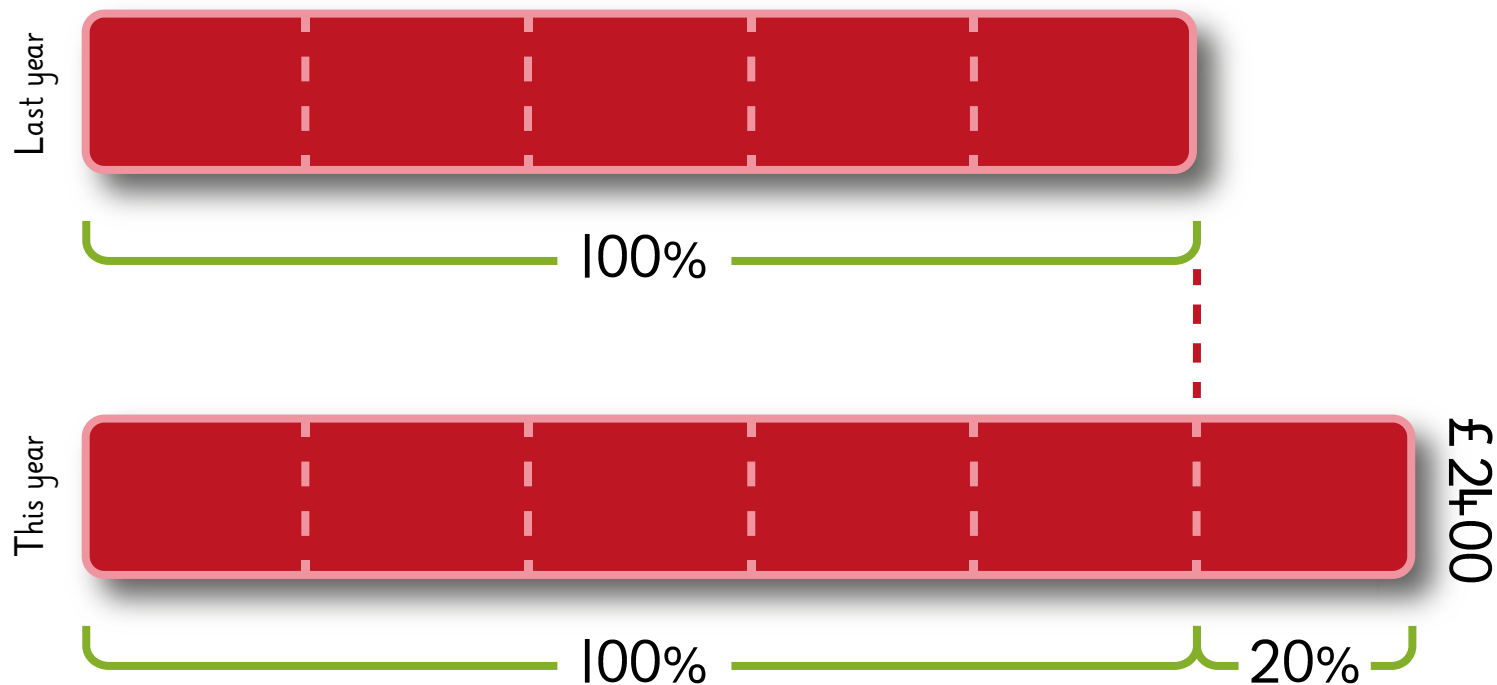


 123 Somerset St. Hemel Hempstead, Herts HP10 8JH		HYDRO BILL	
CUSTOMER: Client Name: 123 Somerset St. Hemel Hempstead, Herts HP10 8JH		BILLING SUMMARY: 000123 Billing Date: JUNE 17, 2012 Customer Number: 000123 Meter ID: 234567	
BILLING SUMMARY: 000123 Previous Balance: £ 150.00 Total Payment (incl. taxes): £ 150.00 Balance Forward: £ 0.00 Total Current Utility Charges: £ 150.00		ELECTRICITY Meters: 123456789 Period: NOV 01, 2011 - DEC 31, 2011 Meters supplied by LOCAL HYDRO Estimated: £45.00 (incl. VAT)	
WATER Meters: 123456789 Period: NOV 01, 2011 - DEC 31, 2011 Meters supplied by LOCAL HYDRO Estimated: £15.00 (incl. VAT)		TOTAL CHARGES: £ 131.12	

You know that $100\% + 20\% = £2400$.

HINT

ACTIVITY 17 - BAR MODEL



We see that 120% is £2400, so if we divide the whole bar into 20% sections, we have 6 sections. Each section therefore represents £400 of the total £2400. The bar for last year should be divided into the same 20% sections. This bar represents 5 x 20% (or 5 x £400). So, it shows us what last year's bill was.

ACTIVITY 14 - MARY'S FAMILY HAVE COOKIES

Mary enjoyed baking for all the family. One weekend she spent all of Saturday baking cookies. She gave her brother Mark one eighth of the cookies and her brother Paul an eighth. Then she gave her sister Vera a sixth of what was left. Next, her neighbour called round and Mary gave her two fifths of the remainder. Mary had 27 cookies left for herself.



How many has she baked altogether?

**HINT**

The fractions involved might sound complicated but when you draw the bar and show eighths so that you can represent one eighth for Mark, you should see what will happen next.

ACTIVITY 14 - BAR MODEL

