



WORKING BACKWARDS

Help Code : 027

11 Here is a rule for the time it takes to cook a chicken.

Cooking time = 20 minutes plus an extra
40 minutes for each kilogram

How many minutes will it take to cook a 3kg chicken?



minutes

What is the mass of a chicken that takes 100 minutes to cook?

kg

19

Dev thinks of a **whole** number.

He multiplies it by 4

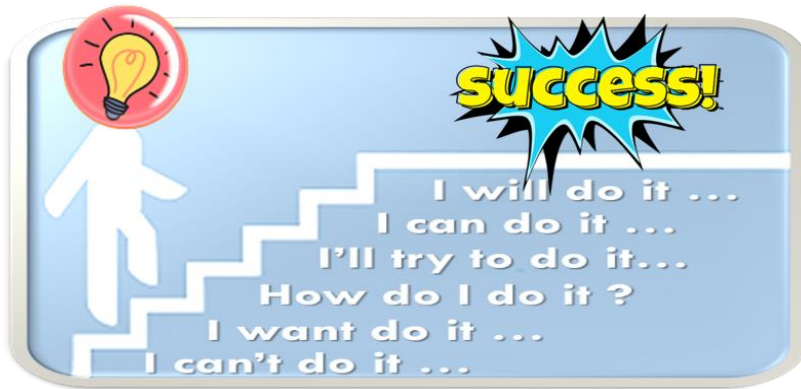
He rounds his answer to the nearest 10

The result is 50

Write **all** the possible numbers that
Dev could have started with.



LAST YEARS
questions



- 16** Lara chooses a number less than 100
She divides it by 3 and then subtracts 11
She then divides this result by 2
Her answer is 10.5

What was the number she started with?

Show your method

- 1** Write the missing number.

One is done for you.



180 $\xrightarrow{\text{is 20 more than}}$ 160

$\xrightarrow{\text{is 20 more than}}$ 237

- 13** Lara chooses a number less than 20
She divides it by 2 and then adds 6
She then divides this result by 3
Her answer is 4.5

What was the number she started with?

Show your method

Y6 SATs

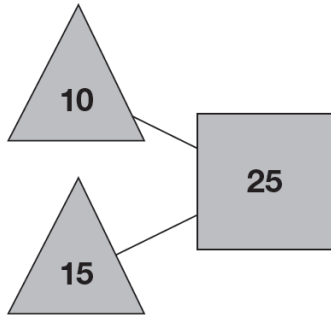
Working Backwards

Help Code : 027

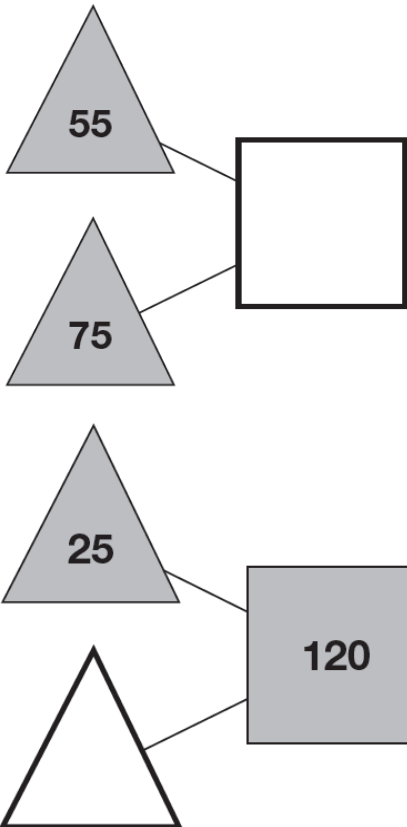
2013A KS2 Q1



The numbers in the two triangles add up to the number in the square.



Using the **same** rule, write in the missing numbers.



2010A KS2 Q23



Write the missing number to make this calculation correct.

 $11 \times \boxed{} = 1111$

BOOSTER

2013A KS2 Q12



Complete these calculations.

$$15 \times 100 = \boxed{}$$

$$\boxed{} \times 10 = 1500$$

$$\boxed{} \div 100 = 150$$

$$150 \div 10 = \boxed{}$$

2011A KS2 Q7



Holly takes **half an hour** to walk from home to school.

She arrives at school at 8:25am.

At what time did she leave home?

 am

Dev leaves school at half past three

He arrives home at ten past four.



How many minutes did it take him to get home?

 minutes

2011A KS2 Q6

Holly has a box of mints.

She has 10 friends.

She gives them 5 mints each.

She has 13 mints left.



How many mints were in the box at the start?

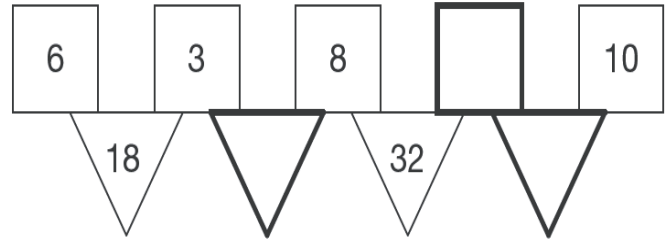


2010A KS2 Q6



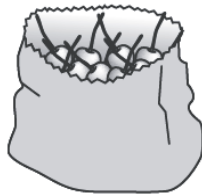
'to make the number in a triangle, multiply the numbers in the two squares above it'.

Write in the three missing numbers.



2010A KS2 Q25

Sarah had a bag of cherries.



She ate 5 cherries, then gave half of what she had left to Liam.

Liam ate 5 of his cherries, then gave half of what he had left to Amy.

Amy got 2 cherries.

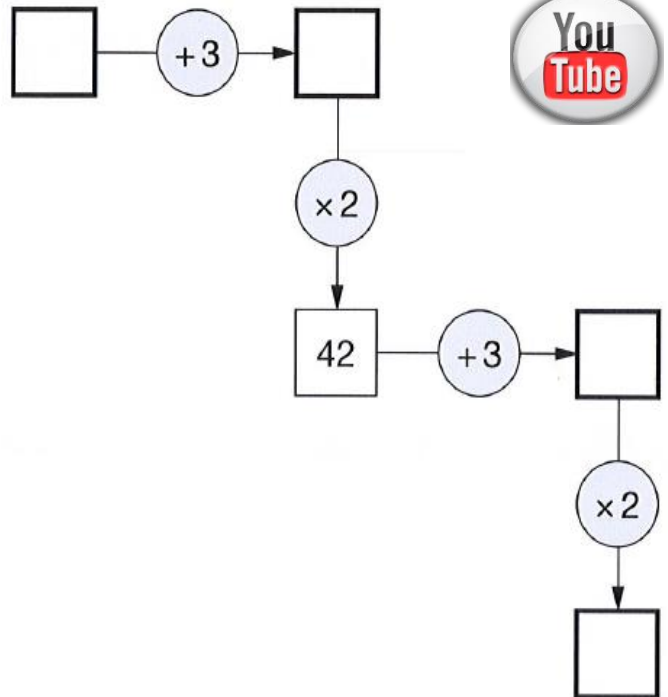
How many cherries did Sarah have in her bag at the start?

Show your working. You may get a mark.

2012A KS2 Q5

Here is a number machine.

Write the four missing numbers.



2008A KS2 Q6



The numbers in this sequence increase by 75 each time.

Write in the two missing numbers.



2007A KS2 Q1



Write in the missing numbers.

$$\boxed{} + 75 = 90$$

$$4 \times \boxed{} = 200$$

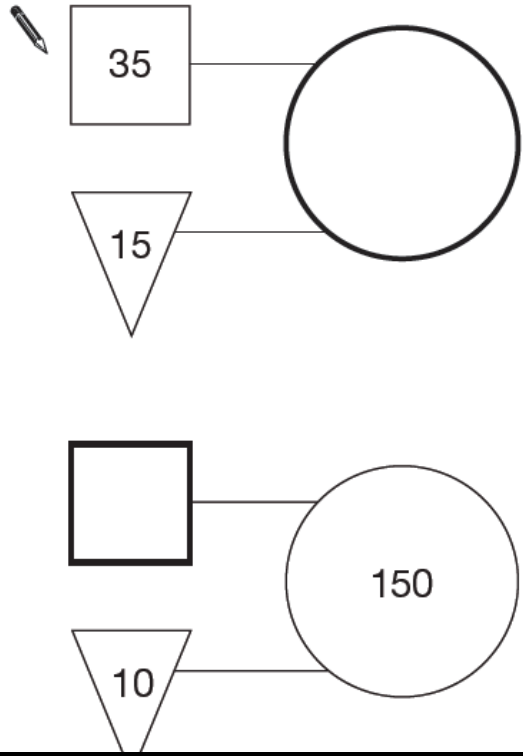
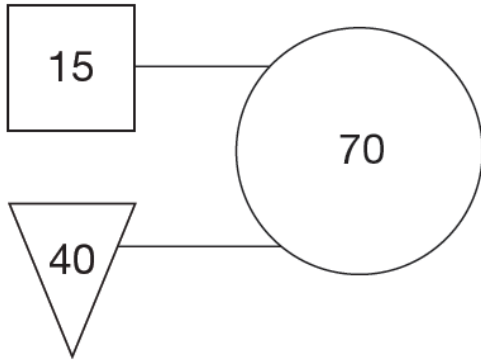
2009A KS2 Q4

In this diagram the rule is

Use the same rule to write in the missing numbers below.



'double the number in the square and add the number in the triangle to make the number in the circle'.



2004A KS2 Q1

Write in the missing numbers.



$$\square + 85 = 200$$

$$4 \times \square = 120$$

$$120 - 51 = \square$$

2002A KS2 Q2

Write in the missing numbers.



$$5 \times 70 = \square$$

$$4 \times \square = 200$$

2001 KS2 Q1

Write in the missing numbers.



$$45 + \square = 110$$

$$(4 \times 5) - \square = 12$$

$$60 \times 3 = \square$$

2003A KS2 Q1

Write in the missing numbers.

$$55 + \square = 120$$



$$600 \times 4 = \square$$



Write in the missing digits to make this correct.

$$\begin{array}{r} \square 4 \square \\ \times \quad 6 \\ \hline 2052 \\ \hline \end{array}$$