



# ALGEBRA Hand UNKNOWNS

Help Code: 017

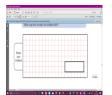
12

$$n = 22$$

4

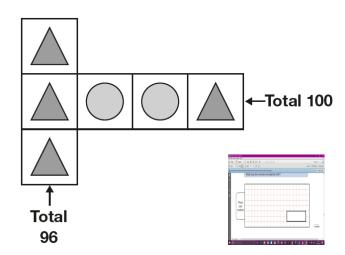
Each shape stands for a number.

What is 2n + 9?





$$2q + 4 = 100$$



Work out the value of q.

Work out the value of each shape.

$$q =$$

**2019 Organiser** Out Now... All-New **Arithmetic Ninjas, Paired Domino Activities, Self-Marking Papers, One Page Wonders** and new Tutorial videos for last Summer's **SATs**. Try it free **press here**!



13

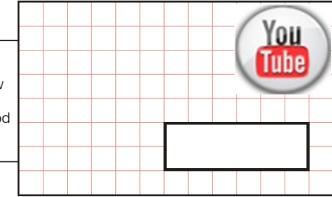
Lara chooses a number less than 20

She divides it by 2 and then adds 6

She then divides this result by 3

Her answer is 4.5

Show your method



What was the number she started with?

Maria bakes cakes and sells them in bags.

She uses this formula to work out how much to charge for one bag of cakes.



Cost = number of cakes × 20p + 15p for the bag

How much will a bag of 12 cakes cost?

£

Olivia buys a bag of cakes for £5.15

Use the formula to calculate how many cakes are in the bag.

You								
Show								
your method								
					C	ake	es	

16

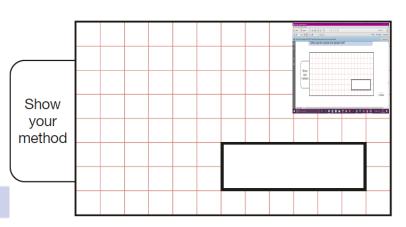
Lara chooses a number less than 100

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?





# **ALGEBRA** Help Code: 017 NKNOWNS

A cake costs 15p more than a biscuit.

Megan bought a cake and two biscuits for 90p.

How much do a cake and a biscuit each cost?



# 2013A KS2 Q15



Four children are in a race.

Chen is 2 metres ahead of Alfie.

Nina is 5 metres behind Megan.

Alfie is 3 metres behind Megan.

Write the names of the runners in order, starting with the child who is furthest ahead.

furthest ahead



# 2010A KS2 Q15

Cost of a cake

Show your working



р

Tube

An iced cake costs 10p more than a plain cake.

Cost of a biscuit

Sarah bought two of each cake.



They cost £1 altogether.

#### What is the cost of an iced cake?

Show your working. You may get a mark.	
	р

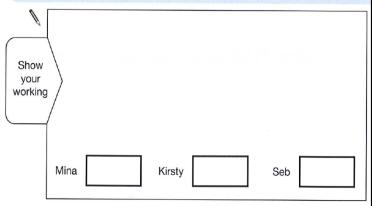
# You 2012A KS2 Q21 Tube

Mina has **5 more** marbles than Kirsty.

Kirsty has 2 more marbles than Seb.

Altogether they have 30 marbles.

How many marbles does each child have?





# 2006A KS2 Q23

k stands for a whole number.

k + 7 is greater than 100

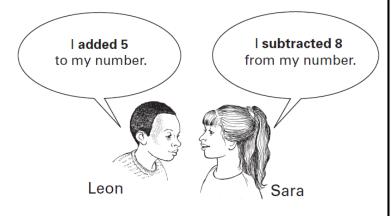
k - 7 is less than 90

Find **all** the numbers that k could be.



## 2000A KS2 Q12

Leon and Sara each started with different numbers.



Leon and Sara both get the **same** answer.

What numbers could they have started with?



Leon



Sara





## 2004A KS2 Q22

Liam thinks of a number.

He multiplies the number by 5 and then subtracts 60 from the result.



His answer equals the number he started with

What was the number Liam started with?

Show your working.	
\ You may get ┌┐/	
a mark.	
You Tube	