

Problems and puzzles 1

Q1 Complete the tables.

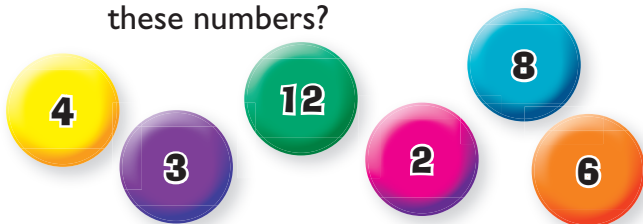
+	8	5	12	9
6				
10			22	
7				
4				

×	4	8	7	9
6				
8				
3				
5				45

−	3	6	4	7
14				
8		2		
17				
11				

÷	2	3	6	9
18				
72		24		
36				
54				

Q2 How many different ways can you make 46, using any of the four operations and some or all of these numbers?



Q3 How many 1-, 2- and 3-digit numbers can you make using these digits?



Q4 Answer these.

A bucket holds 40 litres of water. How many 5 litre jugs can you fill?

There are 48 chocolates in a box. One-third of the chocolates are dark chocolate and the rest are milk chocolate. How many milk chocolates are there in the box?

Louise has 5 metres of lace. She cuts it into 10 equal pieces. If Louise uses 3 pieces for her dress, how much lace is left?

Samson is 104 cm. His older brother is 17 cm taller. How tall is Samson's brother?

There are 72 people on a bus. 36 people are sitting upstairs, 28 people are sitting downstairs and the rest are standing. How many people are standing?

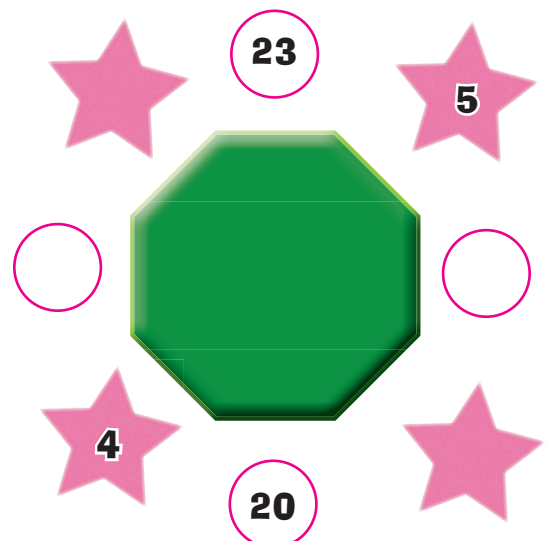
Thomas spends £1.32 at the shops. What change does he get back from £5?

Q5 Write the digits 3 to 9 on the grid so that each row and column of three digits totals the numbers in the stars.

		1
2		

Stars: 10, 15, 20, 16, 14, 15

Q6 The number in each star is the difference between the two numbers in the circles either side of it. Write the missing numbers in the circles and stars.



Your child needs to be able to use and apply their mathematical knowledge to solve problems and puzzles in the real world. Wherever possible, ask your child word problems similar to those in **Q3**.