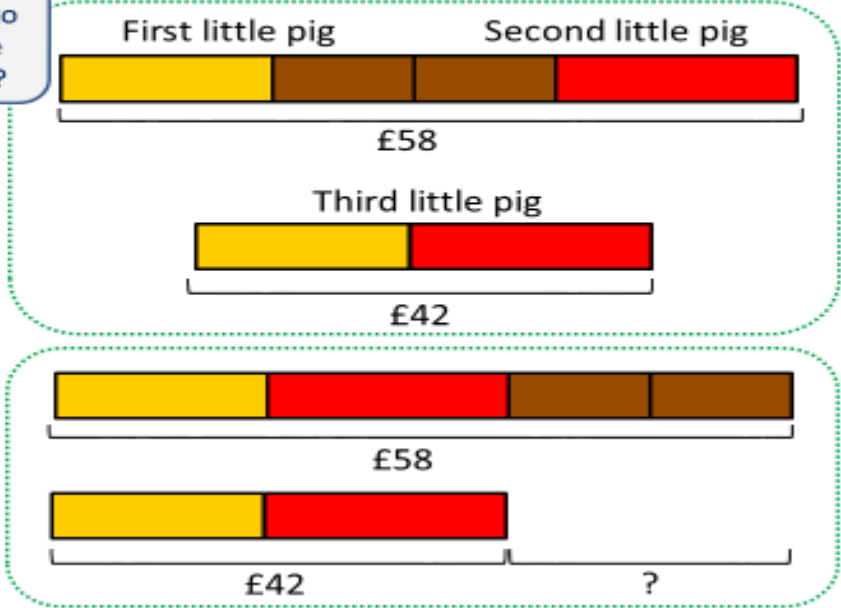
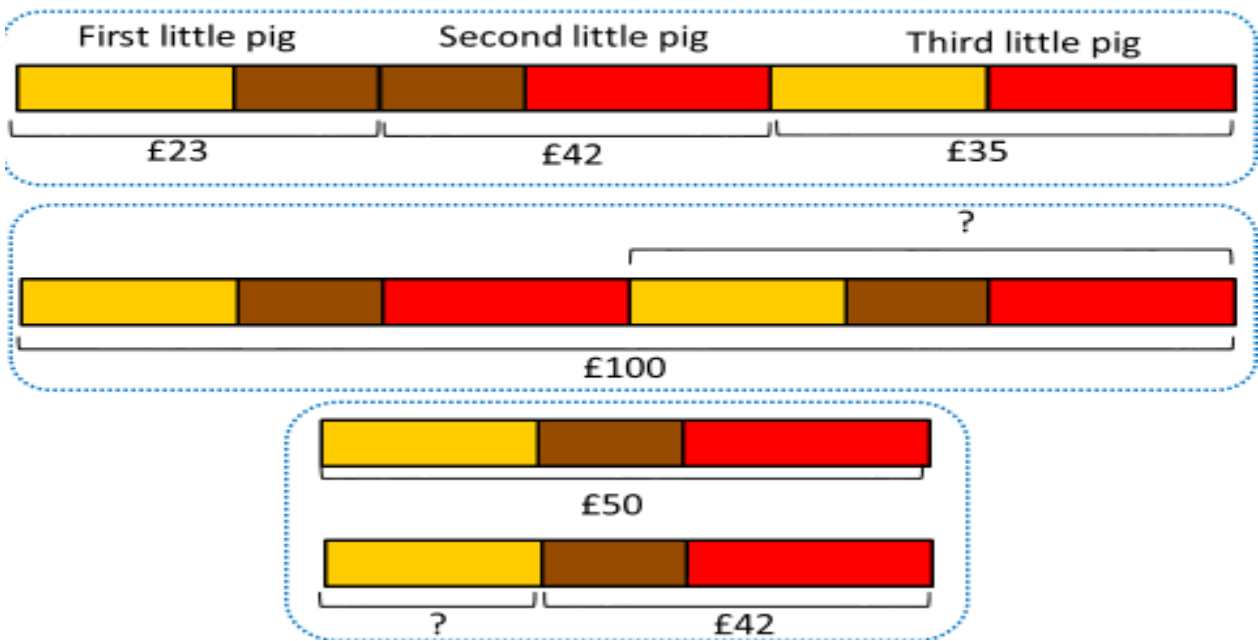


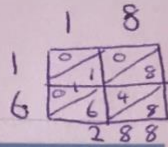
The three little pigs – Solution 1

How does this help to solve the problem?



The three little pigs – Solution 2





Three Quick Questions

- 1 A 5p coin has a thickness of 1.6mm



$$1.6 \times 18 = 28.8 \text{ mm}$$

Jake makes a tower of 5p coins worth 90p.

What is the height of the coins in cm?
 $= 2.88 \text{ cm}$

- 2 Jamie has a number.

If I divide my number by 5 I get 12



What answer does Jamie get if she divides the same number by 15?

Explain your answer.

$$\begin{aligned} & _ \div 5 = 12 \\ \text{so } & 12 \times 5 = 60 \\ \text{then } & 60 \div 15 = 4 \end{aligned}$$

- 3 Here is a rule for generating a sequence.

Multiply the previous term by 3 and subtract 4

The second term of the sequence is 5

Find the difference between the first and fourth terms of the sequence.

$$3 \quad 5 \quad 11 \quad 29$$

$\xrightarrow{\times 3 - 4}$ $\xrightarrow{\times 3 - 4}$

$$\begin{aligned} & \div 3 \quad + 4 \end{aligned}$$

so difference $29 - 3 = 26$

Number Reasoning

- 1 Here is part of a multiplication grid.

×	4	5	6	7	8	9
4	16	20	24	28	32	36
5	20	25	30	35	40	45
6	24	30	36	42	48	54
7	28	35	42	49	56	63
8	32	40	48	56	64	72
9	36	45	54	63	72	81

Shade in any other squares that have the same answer as the shaded square.

- 2



Sally multiplies a number by 100

Her answer has three digits.

The hundreds and ones digit are the same. \downarrow same \downarrow same $= 10$

The sum of the digits is 10

What number could Sally have started with? eg

$$\begin{array}{r} 4 \cdot 2 \cdot 4 \\ 5 \cdot 0 \cdot 5 \end{array}$$

Are there any others?