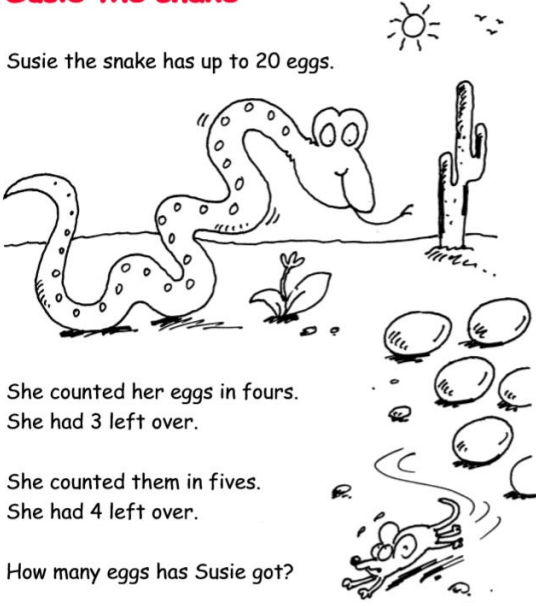**Objective: Solve problems including missing number problems involving multiplication and division**

Year 4 Task:

Susie the snake

Susie the snake has up to 20 eggs.

She counted her eggs in fours.
She had 3 left over.

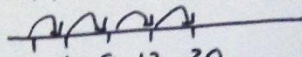She counted them in fives.
She had 4 left over.

How many eggs has Susie got?

From Mathematical Challenges for able pupils in Key Stages 1 and 2
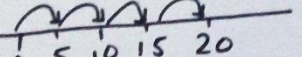
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Worked example

- Count in 4s... up to 20

  +4 +4 +4 +4

  0 4 8 12 20

  So number of eggs could be
  7   (4+3)
  11   (8+3)
  15   (12+3)
  19   (16+3)

- Count in 5s... up to 20

  +5 +5 +5 +5

  0 5 10 15 20

  So number of eggs could be
  9   (5+4)
  14   (10+4)
  19   (15+4)

- Which number in both lists?
  19   so 19 eggs

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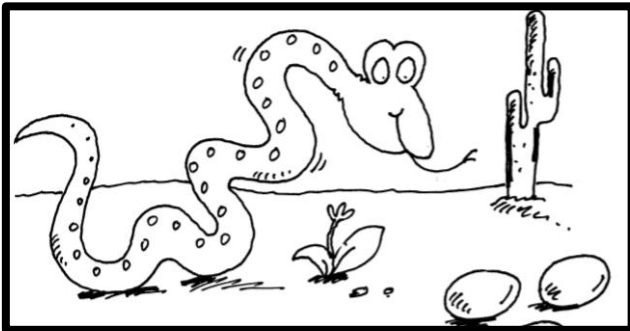
Variation

Sally the snake has up to 35 eggs.

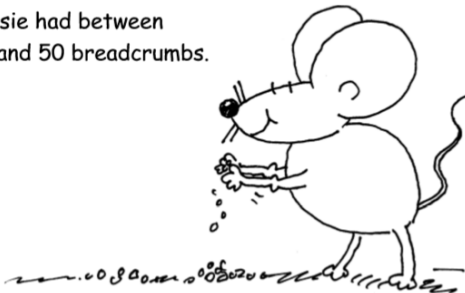She counted the eggs in 4s and has 3 left over.

She counted the eggs in 5s and had 1 left over

How many eggs has Sally got?

Variation

Maisie the mouse

Maisie had between
30 and 50 breadcrumbs.

She counted the breadcrumbs in fours.
There were 2 left over.

She counted them in fives.
There was 1 left over.

How many breadcrumbs did Maisie have?

Answers: 31 eggs for Sally; Maisie has 46 breadcrumbs

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