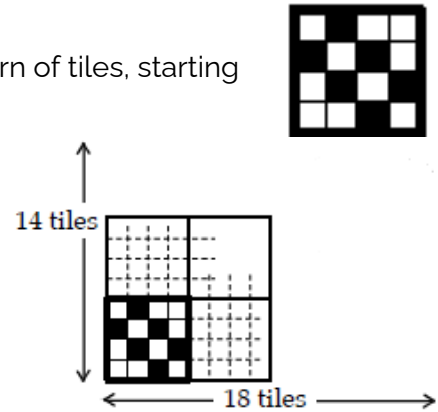


# Number Nest Weekly Challenge



1. Willy Stockitt likes to display his tins of beans in just one large triangular pile. His shop window is 80 cm high and 42 cm wide, and his bean tins are 10 cm high and 5 cm wide. What is the largest number of tins he can display in his window?

2. Tyler Wall wants to tile her kitchen by repeating this 4 x 4 pattern of tiles, starting from the bottom left corner and working across and up. The area that she wants to tile measures 18 tiles across and 14 tiles up. Tiles are sold in packs of 10. How many **packs** of white tiles will she need to buy?



3. A book has 256 pages with, on average, 33 lines on each page and 9 words on each line. Which of the following is the best approximation to the number of words in the book?

A) 64,000      B) 68,000      C) 72,000      D) 76,000      E) 80,000

4. Kim writes all the counting numbers from 1 to 100 in order without leaving any gaps:

**123456789101112131415 ...**

What is the 100th digit that Kim writes?

5. 48% of the pupils at a certain school are girls. 25% of the girls and 50% of the boys at this school travel to school by bus. What percentage of the whole school travel by bus?

A) 37%      B) 38%      C) 62%      D) 43%      E) 45%

6. Despite his name, Mr. Bean likes to eat lots of fruit. He finds that four apples and two oranges cost £1.54 and that two oranges and four bananas cost £1.70. How much would he have to pay if he bought one apple, one orange and one banana?



# Bonus Question

Use 2 straight lines to split the clock face into 3 parts, so that the sums of the numbers in each of the parts are equal.

