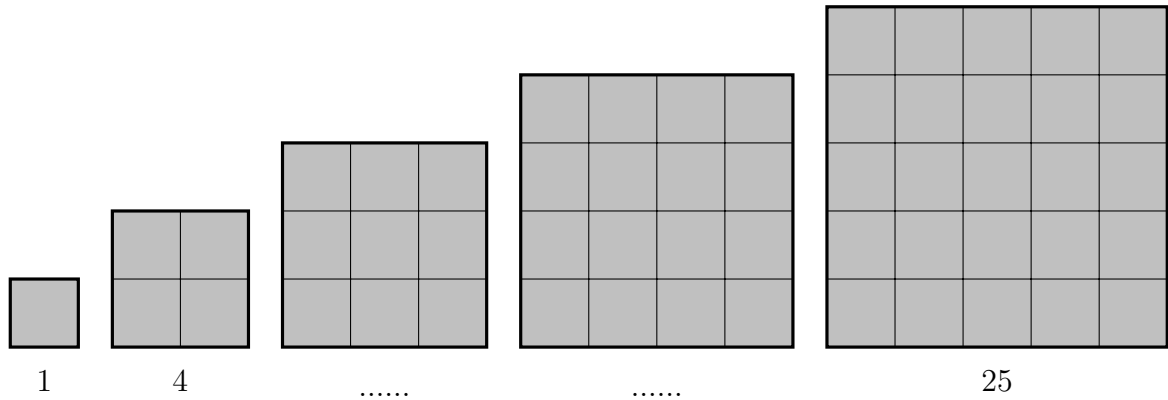
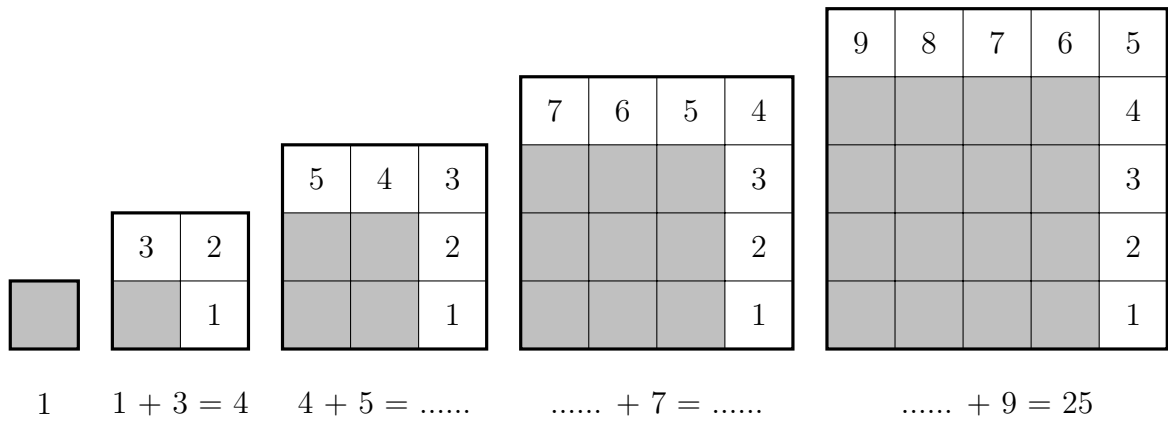


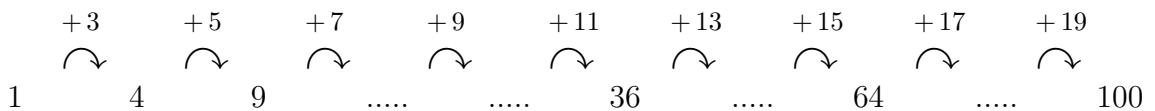
1. The area of squares (with side lengths that are a whole number) are called square numbers.  
 (a) Complete in the diagram below, the area of the squares, which are square numbers.



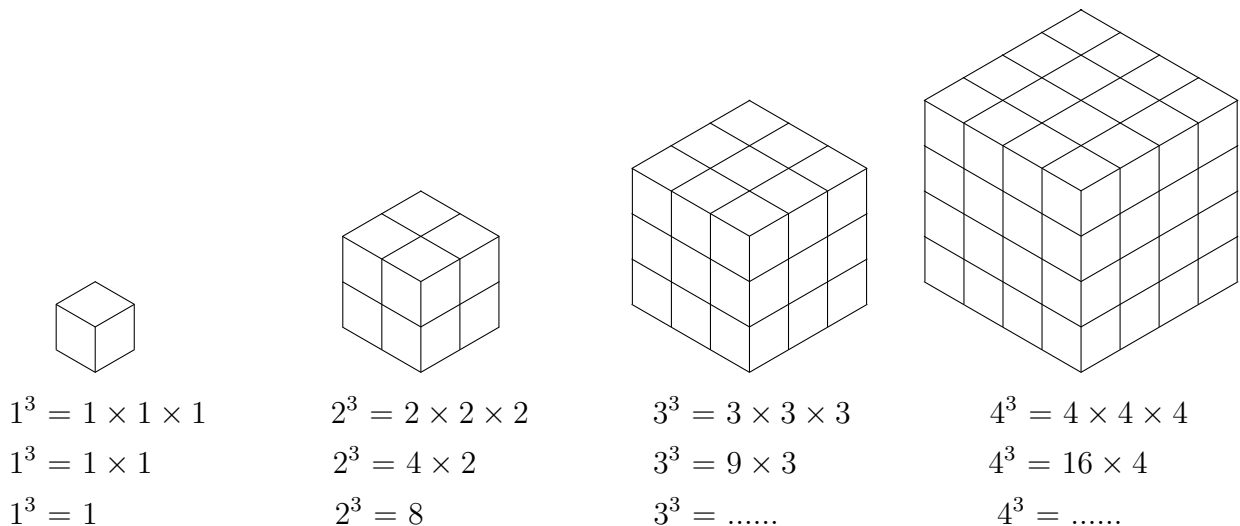
- (b) Complete the number pattern in the diagram below.  
 It shows how to form the next square number by adding on an odd number.



- (c) Completing the sequence below, to find the missing square numbers.



2. The volume of cubes (with side lengths that are a whole number) are called cube numbers.  
 Complete in the diagram below, the volume of the cubes, which are cube numbers.



Turn over for practice questions and answers.

3. Here is a list of numbers.

6    8    9    12    13    14    16    50    90

From the numbers in the list, write down two square numbers.

3. ....

4. Here is a list of numbers.

9    19    20    21    25    27    35    45

From the numbers in the list, write down a cube number.

4. ....

5. Here is a list of numbers.

5    6    8    20    27    35    36    50    65

From the numbers in the list, write down the square number.

5. ....

6. Here is a list of numbers.

3    8    10    12    14    28    30    32    64

From the numbers in the list, write down a square number.

6. ....

7. Here is a list of numbers.

4    8    10    16    17    18    24    100

From the numbers in the list, write down a cube number.

7. ....

8. Here is a list of numbers.

3    8    10    12    14    28    30    32    64

From the numbers in the list, write down a square number.

8. ....

Answers: 1a) 9 16    1b)  $4 + 5 = 9$     $9 + 7 = 16$     $16 + 9 = 25$     1c) 16    25    49    81  
2) 27    64    3) 9 and 16    4) 27    5) 26    6) 64    7) 125    8) 64