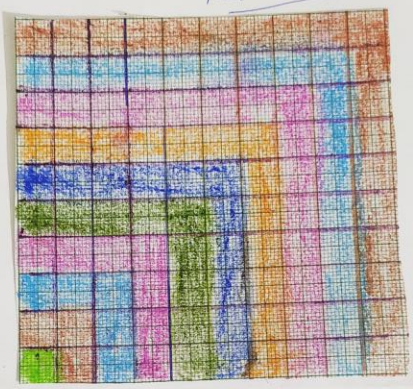
Activity

Sum of n odd numbers $= n^2$

Take $n = 10$



We. Know

$1 = 1 = 1^2 = 1 \times 1$

$1 + 3 = 4 = 2^2 = 2 \times 2$

$1 + 3 + 5 = 9 = 3^2 = 3 \times 3$

Continuing this way we get

$1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 = 81 = 9^2$

$1 + 3 + 5 + \text{- - - - - } + 19 = 100 = 10^2$

Using Prime factorisation

Find the value of

a) $\sqrt{729}$ b) $\sqrt{676}$ c) $\sqrt{9801}$ d) $\sqrt{2304}$

e) $\sqrt{4900}$ f) $\sqrt{7056}$ g) $\sqrt{5625}$ h) $\sqrt{15625}$

and encircle the answers in the given grid.

7	5	1	2	3
0	9	8	4	4
1	5	7	8	6
2	6	2	7	8
5	1	2	9	9

*Answers may be written horizontally vertically or diagonally.