

Lesson Objective:

To square a number

Type 1:

*Applicable to all numbers ending with a 5 such as
25,45,65*

Example 1:

Square of 25

Get the digit before 5 which is 2 in this case

*Multiply this number by next number which is 3 (3 is
next number of 2)*

2 times 3 is 6. Append 25 at the end

Answer is 625

Example 2:

Square of 45

Number before 5 is 4

Next number is 5. Multiply 4 and 5 which gives you 20

Square of 45 is 2025

Example 3:

Square of 85

$(8 \times 9)25$

7225

Example 4:

Square of 95

$(9 \times 10)25$

9025

Type 2:

Use this method if the number you want to score does not have a 5 at the end (in units place)

Example 1:

Square of 14

14 is 4 more than 10

(14, 4)

Add these numbers which gives you 18

Get the square of 4 which is 16

First part of the answer is 18 and the second part is 16 with a carry of 1.

18 16 (18 is the sum of 14 and 4, 16 is the square of 4)

Add carry to previous digit

Answer is 196

Example 2:

Square of 16

(16,6)

22 36 (22 is the sum of 16 and 6, 36 is the square of 6)

256

Example 3:

Square of 96

96 is 4 less than 100

(96, -4)

92 16 (92 is the sum of 96 and -4 and 16 is the square of -4)