

## Estimating Product



**Follow the below steps to find out any given numbers of products using Estimation of products.**

**Step 1:** Firstly, take the given numbers.

**Step 2:** Round off the multiplier and the multiplicand to the nearest tens, hundreds, or thousands.

**Step 3:** In the last step, multiply the rounded numbers and get the output.



**Let us understand with some Examples:**

**Examples 1:** Estimate the products of 33 and 87.

**Solution:** Given numbers are 33 and 87.

Round off the given numbers to the nearest tens, hundreds, or thousands.

33 → 33 is in between 30 and 40. But the 33 is near to 30 compared to 40. Therefore, 33 is rounded down to 30.

87 → 87 is in between 80 and 90. But the 87 is near to 90 compared to 80. Therefore, 87 is rounded up to 90.

Multiply 30 and 90.

$$30 \times 90 = 2700.$$

**Therefore, the estimated product is 2700.**



**Example 2:** Estimate the products of 332 and 268 by rounding to the nearest hundred.

**Solution:** Given numbers are 332 and 268.

Round off the given numbers to the nearest tens, hundreds, or thousands.

332 → 332 is in between 300 and 400. But the 332 is near to 300 compared to 400. Therefore, 332 is rounded down to 300.

268 → 268 is in between 200 and 300. But the 268 is near to 300 compared to 200. Therefore, 268 is rounded up to 300.

Multiply 300 and 300.

$$300 \times 300 = 90,000.$$

**Therefore, the estimated product is 90,000.**