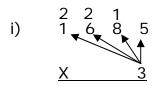## Multi-Number Multiplication - Guided Lesson Explanation
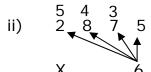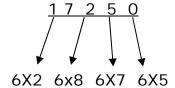
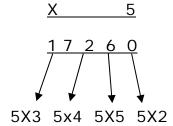**Explanation # 1**

We have to multiply the two digits.

Multiply the numbers at each place value.

If result is more than 9, then carry over the digit on ten's place of the result to the number on the subsequent place value of the question.

i)
```
    2  2  1
    1  6  8  5
X            3
```
```
    5  0  5  5
```
3X1   3x6   3X8   3X5

ii)
```
    5  4  3
    2  8  7  5
X            6
```
```
  1 7 2 5 0
```
6X2   6x8   6X7   6X5

iii)
```
        1
    1   4  7  4
X            2
```
```
    2  9  4  8
```
2X1   2x4   2X7   2X4

iv)
```
    2  2  1
    3  4  5  2
X            5
```
```
  1 7 2 6 0
```
5X3   5x4   5X5   5X2

So, the result are
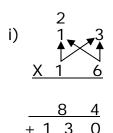
 i) 5055   ii) 17250   iii) 2948   iv) 17260.

Explanation # 2

We have to calculate the multiplication of two digit numbers:

If there are two digit multipliers, add both products.

If product is more than 9, then carry over the digit on tens place of the result to the number on the subsequent place value of the question.

i)
```
      2
    1    3
  X 1    6
  _____
      8   4
 + 1  3   0
 _____
   2  2   4
```

ii)
```
      1
    1    3
  X 1    6
  _____
   1
   0 7    8
 + 1 3    0
 _____
   2 0    8
```

So, the result is i) 224 ii) 208

Explanation # 3

Step 1) In this we have to find out the missing multiplier.

Step 2) First, We have to find out how many times multiplicands should multiply to get the result. So, we have to divide the result by multiplicand.

i) $544 \div 68 = 9$

ii) $10384 \div 2596 = 4$

So, the result is i) 9   ii) 4