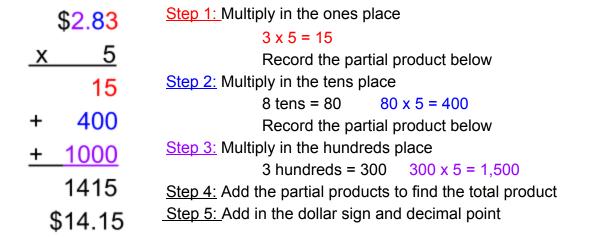**Unit 3: Multiplication of Whole Numbers**

Chapter 6: Multiply up to 5-digit numbers by a 1-digit number

47
x 3

21
+120

141

Step 1: Multiply in the ones place
   7 x 3 = 21
  Record the partial product below
Step 2: Multiply in the tens place
   4 tens = 40 40 x 3 = 120
   Record the partial product below
Step 3: Add the partial products to find the total product

372
x 5

10
+ 350
+ 1500

1860

Step 1: Multiply in the ones place
   2 x 5 = 10
  Record the partial product below
Step 2: Multiply in the tens place
   7 tens = 70 70 x 5 = 350
   Record the partial product below
Step 3: Multiply in the hundreds place
   3 hundreds = 300 300 x 5 = 1,500
Step 4: Add the partial products to find the total product

6816
x 4

24
+ 40
+ 3200
+ 24000

27264

Step 1: Multiply in the ones place
   6 x 4 = 24
  Record the partial product below
Step 2: Multiply in the tens place
   1 ten = 10 10 x 4 = 40
   Record the partial product below
Step 3: Multiply in the hundreds place
   8 hundreds = 800 800 x 4 = 3,200
Step 4: Multiply in the thousands place
   6 thousands = 6,000 6,000 x 4 = 24,000
Step 5: Add the partial products to find the total product

```
    25329
  x      6
        54
  +    120
  +   1800
  +  30000
  + 120000
   151,974
```

Step 1: Multiply in the ones place

9 x 6 = 54

Record the partial product below

Step 2: Multiply in the tens place

2 tens = 20   20 x 6 = 120

Record the partial product below

Step 3: Multiply in the hundreds place

3 hundreds = 300   300 x 6 = 1,800

Step 4: Multiply in the thousands place

5 thousands = 5,000   5,000 x 6 = 30,000

Step 5: Multiply in the ten-thousands place

2 ten thousands = 20,000   20,000 x 6 = 120,000

Step 6: Add the partial products to find the total product

```
    $2.83
  x      5
        15
  +    400
  +   1000
     1415
   $14.15
```

Step 1: Multiply in the ones place

3 x 5 = 15

Record the partial product below

Step 2: Multiply in the tens place

8 tens = 80   80 x 5 = 400

Record the partial product below

Step 3: Multiply in the hundreds place

3 hundreds = 300   300 x 5 = 1,500

Step 4: Add the partial products to find the total product

Step 5: Add in the dollar sign and decimal point

Reminders:
- ★ Make sure to carefully line up all place values
- ★ Remember that where a digit is located matters (place value)
- ★ Keep track of the number of zeroes needed for each place value
- ★ Add partial products carefully
- ★ Remember that the number of digits in the first factor tells how many partial products there will be to add (ex: 4 digit factor = 4 partial products)
- ★ When multiplying money amounts, the steps are the same, just add the decimal/dollar sign to the answer at the end