

Name _____

Date _____

Multi-Number Multiplication - Step-by-Step Lesson

(i) 2564

$\times 3$

(ii) 56

$\times 14$

Explanation:

Step 1) First we look to see what is asked of us

“Multiply four digit numbers and two digit numbers”

Step 2) Multiply the numbers at each place value.

Step 3) If the result is more than 9, carry over the digit at the tens place of the result to the number on the subsequent place value of the question.

i)

$$\begin{array}{r}
 \begin{array}{cccc}
 & 1 & 1 & 1 \\
 2 & 5 & 6 & 4 \\
 \times & & & 3 \\
 \hline
 7 & 6 & 9 & 2
 \end{array}
 \end{array}$$

So, the result is 7692.

Multiply the digit at the ones place of the bottom number (56×4). This results in 224. Now we are multiplying the top number by 10, so we write a zero immediately at the end of our product. (56×10). We then add both products.

ii)

$$\begin{array}{r}
 \begin{array}{ccc}
 & 2 & \\
 5 & 6 & \\
 \times & 1 & 4 \\
 \hline
 2 & 2 & 4 \\
 + & 5 & 6 & 0 \\
 \hline
 7 & 8 & 4
 \end{array}
 \end{array}$$

So, the result is 784.

