Multiplying Whole Numbers

1. Write the problem vertically

2. Multiply the ones digit of the bottom number by each of the digits in the top number, right to left

3. Bring down a zero and then multiply the tens digit of the bottom number by each digit in the top number, right to left

4. Bring down two zeros and repeat with the hundreds digit of the bottom number

5. Add up all of the products

ex: 3,481 x 142

$$
\begin{array}{r}
3,481 \\
\times \quad 142 \\
\hline
6962 \\
+ \ 139240 \\
348100 \\
\hline
494,302
\end{array}
$$

Dividing Whole Numbers

1. Write out the long division problem with the first number (dividend) underneath the division symbol and the second number (divisor) to the left of the division symbol

2. Divide the divisor into the smallest part of the dividend it can go into and write the number of times it can go in on top of the division symbol

3. Multiply the number on top by the divisor and write the product under the number you divided into in step 2

4. Subtract your product from the number above it

5. Bring down the next digit of the dividend

6. Repeat steps 2-5 until there is nothing left to bring down.

7. If your last subtraction answer is not zero, write the remainder on top

ex: 6,425 ÷ 21

$$
\begin{array}{r}
305 \text{ R } 20 \\
21\overline{)6425} \\
-63 \\
\hline
12 \\
0 \\
\hline
125 \\
-105 \\
\hline
20
\end{array}
$$

Find each product. Show your work.

1. 238 x 5	2. 832 x 156	3. 4,899 x 67	4. 756 x 300
5. 19 x 863	6. 188 x 732	7. 3,249 x 173	8. 609 x 840

Find each quotient. Show your work.

9. 876 ÷ 2	10. 9,473 ÷ 5	11. 396 ÷ 24	12. 8,911 ÷ 45
13. 700 ÷ 12	14. 1,065 ÷ 15	15. 2,737 ÷ 305	16. 4,516 ÷ 22

Solve each problem, showing all work.

17. Mrs. Kleim bought 5 boxes of 15 pencils to give to her students. If she has 26 students in her class, how many pencils can she give each student? How many pencils will she have left over?	18. Sarah and her 3 friends split a bag of candy evenly. They each ate 13 pieces of candy and there were 2 pieces leftover. How many pieces of candy were originally in the bag?