Name_____ Practice Sheet

5.NBT.5
Use the standard algorithm to multiply

Multiply Using the Standard Algorithm

To multiply using the standard algorithm, multiplying in parts (partial products). Each place value is multiplied separately. Then, the products are added together.

Step 1: Multiply the ones (bottom digit) by the top factor.
Step 2: Multiply the tens (bottom digit) by the top factor.
*Be sure to include the zero as your place holder.
Step 3: Add the partial products.

Step 1	Step 2	Step 3
+2 34 ← Start here x 27 238 ← 7 x 34	34 x (2)7 238 680 ← 20 x 34	34 x 27 238 + 680 918 ← Add

Solve each problem below using the standard algorithm.

1. 53
x 34
_____ ← 4 x 53
_____ ← 30 x 53
_____ ← Add

2. 78
x 49
_____ ← 9 x 78
_____ ← 40 x 78
_____ ← Add

3. 87
x 62
_____ ← 2 x 87
_____ ← 60 x 87
_____ ← Add

4. 64
x 19

5. 96
x 23

6. 45
x 58

7. 39
x 79

8. 82
x 97

Name_____ Practice Sheet

5.NBT.5
Use the standard algorithm to multiply

Multiply Using the Standard Algorithm

Follow the same steps to multiply with larger factors.

Step 1: Multiply the ones (bottom digit) by the top factor.
Step 2: Multiply the tens (bottom digit) by the top factor.
*Be sure to include the zero as your place holder.
Step 3: Add the partial products.

Step 1	Step 2	Step 3
+2 +2 634 Start here x 27 4438 ← 7 x 634	634 x (2)7 4438 12680 ← 20 x 634	634 x 27 4438 + 12680 17118 ← Add

Solve each problem below using the standard algorithm.

1. 276
x 28
_____ ← 8 x 276
_____ ← 20 x 276
_____ ← Add

2. 4923
x 75
_____ ← 5 x 4923
_____ ← 70 x 4923
_____ ← Add

3. 358
x 19
_____ ← 9 x 358
_____ ← 10 x 358
_____ ← Add

4. 917
x 26

5. 5437
x 87

6. 608
x 93

7. 8289
x 54

8. 732
x 34

Name_____

Practice Sheet

5.NBT.5
Use the standard algorithm to multiply

More Practice: Standard Algorithm

Solve each problem below using the standard algorithm.

1.
64
x 38
_____ ← 8 x 64
_____ ← 30 x 64
_____ ← Add

2.
792
x 26
_____ ← 6 x 792
_____ ← 20 x 792
_____ ← Add

3.
4139
x 57
_____ ← 7 x 4139
_____ ← 50 x 4139
_____ ← Add

4. 524 x 84

5. 3758 x 29

6. 96 x 75

7. 6207 x 33

8. 149 x 42

9. 239 x 65

10. 73 x 48

11. 2831 x 54

12. 88 x 27

13. 396 x 13

Name_____

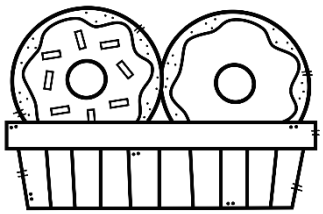
Practice Sheet

5.NBT.5
Use the standard algorithm to solve word problems

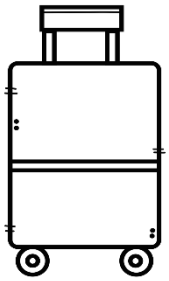
Multiplication Word Problems

Solve each word problem below.

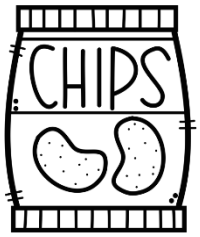
1. A company ordered 38 dozen doughnuts for an employee breakfast. If there are 12 doughnuts in a dozen, how many doughnuts did the company order in all?



2. An airplane has 237 passengers on board. If each passenger brought one suitcase weighing 24 pounds each, what is total weight of suitcases on the airplane?

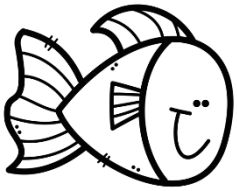


3. A chip company produced 3,946 bags of chips this month. Each bag contained 36 chips. How many chips did the company produce in all this month?

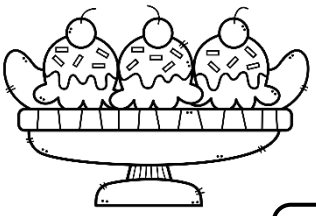


4. A lion in the wild eats an average of 18 pounds of food each day. How many pounds of food does the lion eat in one year? Hint: One year is 365 days.

5. A lake has 56 schools of fish. How many fish are in the lake in all if each school has 87 fish?



6. An ice cream parlor sells banana splits for $16 each. This month 2,849 banana splits were sold. How much money did the ice cream parlor make this month selling banana splits?



Name_____

Practice Sheet

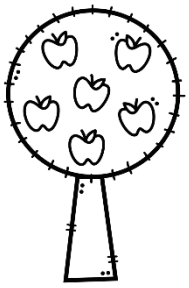
5.NBT.5
Use the standard algorithm to solve word problems

Multiplication Word Problems

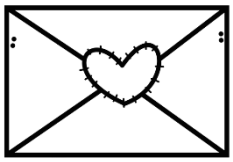
Solve each word problem below.

1. Maryville Public Library has 385 shelves. Each shelf can hold 229 books. How many books can the shelves at Maryville Public Library hold in all?

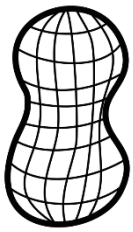
2. There are 634 trees in Paul's apple orchard. Paul picks 74 apples from each tree. How many apples did Paul pick for the trees altogether?



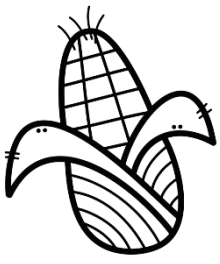
3. On an average day, a mailman delivers 372 pieces of junk mail. How many pieces of junk mail would a mailman deliver in 45 days?



4. It takes 540 peanuts to make one 12-ounce jar of peanut butter. How many peanuts are needed to make 275 12-ounce jars of peanut butter?



5. One ear of corn contains 815 kernels. If a farmer harvested 466 ears of corn, how many total kernels were there altogether on the harvested corn?



6. A large gumball machine holds 529 gumballs. How many gumballs could 954 machines hold in all?