Steps to Multiply Using the Standard Algorithm

$$3\ 1\ 7$$
$$\times\ 5\ 1$$
$$\overline{3\ 1\ 7}$$
$$+\ 1\ 5\ 8\ 5\ 0$$
$$\overline{1\ 6,1\ 6\ 7}$$

1. Multiply the ones place in the bottom number by the ones place in the top number. Regroup if needed.

2. Multiply the ones place in the bottom number by the tens place in the top number. Regroup if needed.

3. Multiply the ones place in the bottom number by the hundreds place in the top number. Regroup if needed.

4. Move to the next line. Place a zero in the ones space because we will be multiplying by ten. Remember: When we multiply by ten, the product ends in a zero.

5. Multiply the tens place in the bottom number by the ones place in the top number. Regroup to the tens place if needed.

6. Multiply the tens place in the bottom number by the tens place in the top number. Add any regrouped ones. Regroup to the hundreds place if needed.

7. Multiply the tens place in the bottom number by the hundreds place in the top number. Add any regrouped tens. Regroup to the thousands place if needed

8. Add the answer lines together. Regroup as needed.
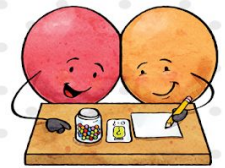
PRACTICE A

Directions: Complete the missing numbers in the multiplication problems below.

TASK #1

```
        7  3
   ×    4  1
   _____
        7  #
+  #  9  #  0
_____
   2  9  #  3
```

TASK #2

```
         8  5  6
   ×        2  q
   _____
      #  7  #  #
+1 7  #  2  #
_____
   #  4  #  2  #
```
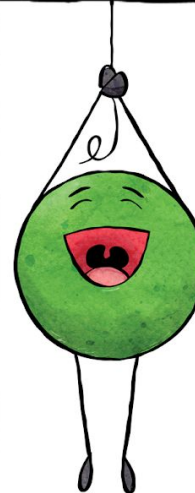
PRACTICE B

Directions: Use the standard algorithm to solve each problem. Then, drag each problem to the correct product.

8,001	6,231

2,548	7,568

DRAG EACH CARD BELOW TO THE CORRECT BOX.

49 x 52

176 x 43

67 x 93

473 x 16

127 x 63

196 x 13

889 x 9

201 x 31
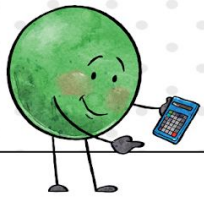
PRACTICE C

Directions: Read each story problem. Drag it to the box with a matching product.

Then, record the number sentence used to get the product.

4,656

DRAG STORY PROBLEM HERE!

Number Sentence:

Type Here.

7,380

DRAG STORY PROBLEM HERE!

Number Sentence:

Type Here.

1,155

DRAG STORY PROBLEM HERE!

Number Sentence:

Type Here.

8,478

DRAG STORY PROBLEM HERE!

Number Sentence:

Type Here.

DRAG THE CARDS BELOW TO THE CORRECT SPACE.

The local movie theatre installed luxury reclining seats in each theatre. Each theatre has 105 seats. An early bird ticket costs $6 and a regular ticket costs $11. How much money will the movie theatre make if they fill all the seats in a theatre at the regular ticket price?

The movie theatre's concession stand sells snacks for movie watchers to enjoy during the movie. A large tub of popcorn has 1,120 calories. A large lemonade has 388 calories. How many calories are in 12 large lemonades?

The latest action movie has a running time of 123 minutes. The latest comedy has a running time of 92 minutes. If there are 60 seconds in one minute, how long is the running time of the latest action movie in seconds?

On Saturday nights, the movie theatre sells a special movie meal deal that includes a movie ticket, a gourmet burger, side of French fries, and a drink for $27. If they sold 314 of these special movie meal deals, how much money did they make?
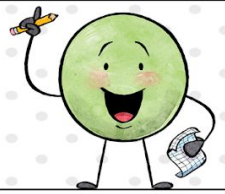
Directions: Review the problem on the left. Decide what went wrong. Then show the correct process on the right.

WHAT WENT WRONG?

$$
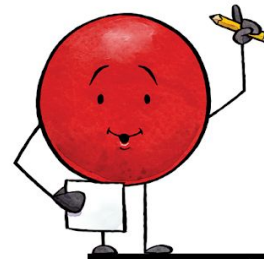\begin{array}{r}
2\ 2\ 7 \\
\times\qquad 8\ 4 \\
\hline
9\ 0\ 8 \\
+1\ 8\ 2\ 6\ 0 \\
\hline
1\ 9\ 1\ 6\ 8
\end{array}
$$

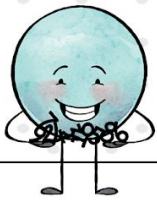Describe what went wrong in the problem above.
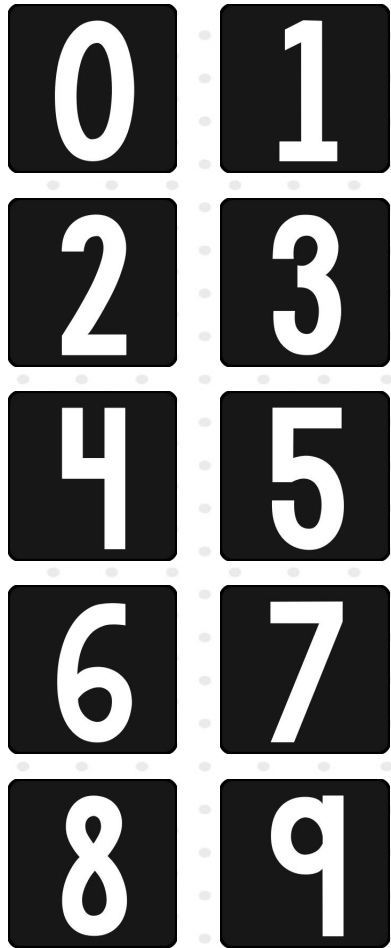
Type Here.

SHOW THE CORRECT PROCESS BELOW

$$
\begin{array}{r}
2\ 2\ 7 \\
\times\qquad 8\ 4 \\
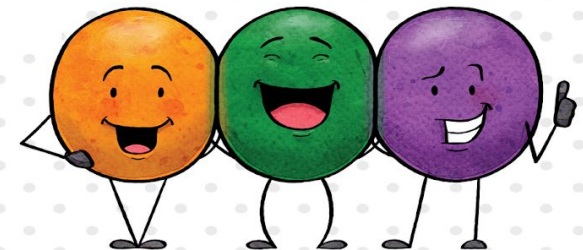\hline
\end{array}
$$

#	#	#	#
#	#	#	#	#
#	#	#	#	#

+

Directions: Use the clues to determine where to place each digit in the boxes below.

Number tiles:
0 1
2 3
4 5
6 7
8 9

LEFTOVER TILES

$$
\begin{array}{cccc}
 & \square & 4 & \square \\
\times & & & 7 \\
\hline
\square & 7 & 0 & \square \\
+1 & 2 & 2 & 0 \\
\hline
1 & \square & 0 & 8 \\
\end{array}
$$

Robin multiplied two numbers together to get a product that has a difference of about 90 from the product of 29 x 76. What two numbers might she have multiplied together? Justify your answer on the lines below using the standard algorithm.

Type Here.