# G4-M3-Lesson 18

Solve using the standard algorithm. Check your quotient and remainder by using multiplication and addition.

1.  $69 \div 3$

```
        2 3                    2   3
                          ×        3
    3 | 6 9                  ─────────
      − 6                        6   9
      ─────
        0 9
      −   9
      ─────
          0
```

> 69 divided by 3 is 23. And 23 times 3 is 69.

2.  $57 \div 3$

> I notice the divisor is the same in Problems 1 and 2. But the whole 69 is greater than the whole of 57. When the divisor is the same, the larger the whole, the larger the quotient.

```
        1 9
    3 | 5 7                    1   9
      − 3                  ×        3
      ─────                   ─────────
        2 7                      5   7
      − 2 7
      ─────
          0
```

> I distribute 3 tens. 2 tens remain. After decomposing, 20 ones plus 7 ones is 27 ones.

3.  $94 \div 5$

```
        1 8 R4         1   8            9   0
                   ×       5        +       4
    5 | 9 4          ─────────        ─────────
      − 5               9   0            9   4
      ─────
        4 4
      − 4 0
      ─────
          4
```

> The quotient is 18 with a remainder of 4.

4.  $97 \div 7$

> When the wholes are nearly the same, the larger the divisor, the smaller the quotient. That's because the whole is divided into more equal groups.

```
        1 3 R6         1   3            9   1
                   ×       7        +       6
    7 | 9 7          ─────────        ─────────
      − 7               9   1            9   7
      ─────
        2 7
      − 2 1
      ─────
          6
```

> I prove my division is correct by multiplying 13 by 7 and then adding 6 more.

Lesson 18:      Find whole number quotients and remainders

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