Unit 9, Lesson 6

What's the Quotient?

Let's find some quotients of multi-digit numbers.

Warm-up

Number Talk: Divide by 3

Find the value of each expression mentally.

- $48 \div 3$
- $480 \div 3$
- $528 \div 3$
- $5{,}280 \div 3$

Activity 1

Unfinished Divisions

Here are 4 calculations to find the value of $7{,}465 \div 5$, but each calculation is unfinished.

Complete at least 2 of the unfinished calculations.

```
   200
    80
    13
5 )7,465
  − 65
   7,400
  − 400
   7,000
  − 1,000
```

```
   400
 1,000
5 )7,465
  − 5,000
   2,465
  − 2,000
```

$$5{,}000 \div 5 = 1{,}000$$
$$60 \div 5 = 12$$
$$5 \div 5 = 1$$

7,465 is a little less than 7,500.

$$7{,}500 \div 5 = 1{,}500$$
$$35 \div 5 = 7$$

Activity 2

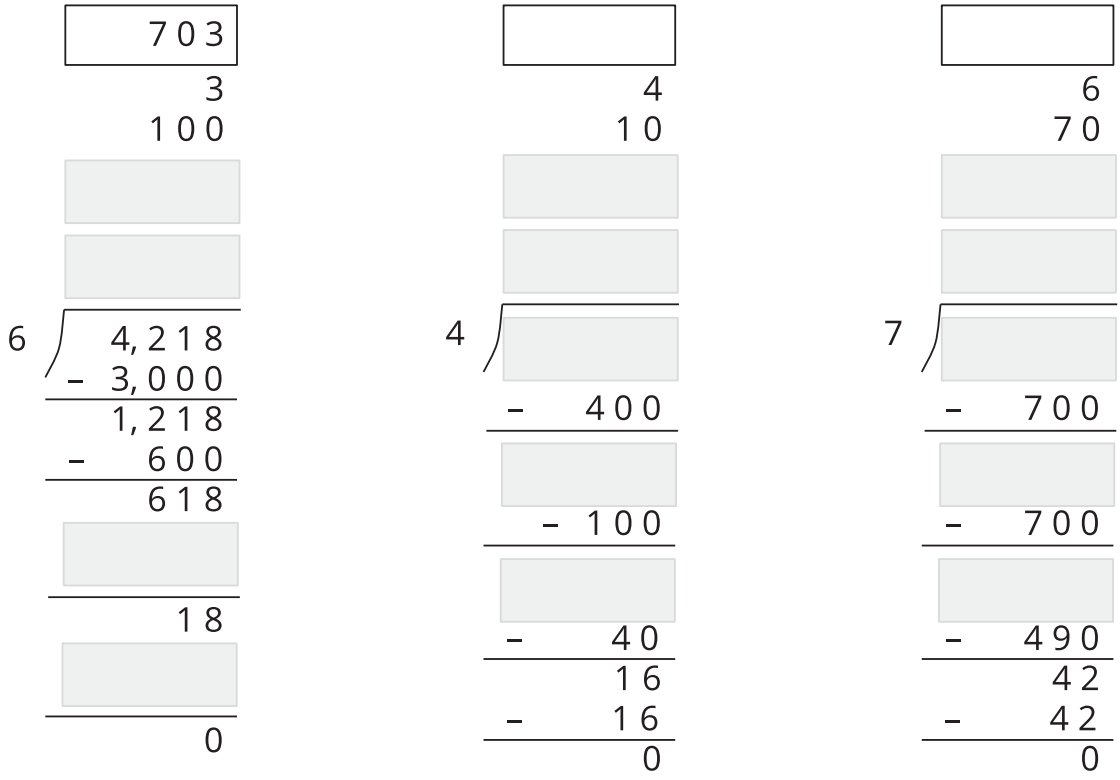
Where Do We Begin?

1. Jada and Noah are finding the value of $3{,}681 \div 9$. Jada says to start by dividing 81 by 9. Noah says to start by dividing 3,600 by 9.

   a. Explain why each suggestion is helpful for finding the quotient.

   b. Find the value of $3{,}681 \div 9$. Show your reasoning.

2. Find the unknown numbers to show a correct division calculation.



3. Consider the expression $5{,}016 \div 8$.

   a. What would you do to start finding the value of the quotient?

   b. Show how you would find the value with as few steps as possible.