

Lesson 5a Divide by Multiples of 10, 100, and 1000

Objective: Use patterns and mental math to divide by multiples of 10, 100 and 1,000.

Complete on a separate sheet of paper and turn in to the basket.

Warm-up: Copy the chart and check whether each number is divisible by 2,3,4,5,6,9, or 10.

Number	2	3	6	4	9	5	10
675							
860							
2,424							
6,336							

Divide:

- $160 \div 8 =$
- $8100 \div 9 =$
- $360,000 \div 6 =$
- $72,000 \div 8 =$
- $420,000 \div 6 =$

Think about it:

$$36,000 \div 1 = 36,000 =$$

$$36,000 \div 10 = 3,600 =$$

$$36,000 \div 100 = 360 =$$

$$36,000 \div 1,000 = 36$$

1. What do you notice about the pattern?
2. How does the increasing the number of zeros in the divisor by 1 affect the number of zeros in the quotient?
3. How can you use the number of trailing zeros in the dividend and the divisor to find the number of dividends in the quotient?

Practice: Complete in your journal

Divide using mental math.

- $800 \div 4$
- $6,000 \div 20$
- $4,000 \div 500$
- $80 \overline{)6,400}$
- $900 \overline{)36,000}$
- $4,000 \overline{)200,000}$

Complete Practice 5.1

App on the iPad:

Math Drills – basic multiplication facts, and divisibility dash



Homework: Divide with multiples of 10, 100, and 1,000 (HW 5.1)