

# Lesson 4a: Estimate Quotients

**Objective: Estimate quotients using basic multiplication facts.**

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

**Warm-up:** Multiply mentally.

1.  $300 \times 7 =$

2.  $9 \times 600 =$

3.  $4 \times 500 =$

4.  $8,000 \times 7 =$

Find each product.

5.  $72 \times 48 =$

6.  $59 \times 82$

**Vocabulary:**

1. Compatible Numbers – Numbers that close to the original numbers and are easy to divide.
2. Divisor – the number by which a number is being divided.
3. Dividend – the number that is divided in a division problem.
4. Quotient – the result in division

Learn about it:

Example:  $2,340 \div 8$

$$\begin{array}{r} \text{? hundreds} \\ 8 \overline{)2,340} \end{array}$$

- Which numbers are compatible with 8?
- What value of n makes  $8 \times n$  close to 23?
- $8 \times 3 = 24$
- 24 is close to 23, so 3 is the first digit.

$$\begin{array}{r} 300 \\ 8 \overline{)2,400} \end{array}$$

2,400 is close to the dividend.  
The estimated quotient is 300

**Practice:** Complete in your journal

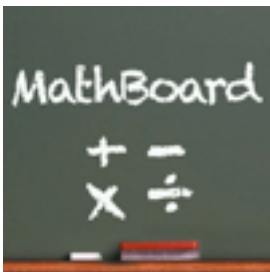
$$8 \overline{)658}$$

$$5 \overline{)2,674}$$

$$4 \overline{)17,987}$$

$$3 \overline{)7,274}$$

**App on the iPad:**



**Homework: Estimating Quotients (4.1)**