

## LESSON 24

### Objectives

- To teach dividing \*up to six-digit dividends by three-digit divisors. (Previous experience: two-digit divisors.)
- To give more practice with estimating quotients.

### Review

- Short division (Lesson 22).

$$\begin{array}{r} (1,458 \text{ R } 1) \\ 3 \overline{)4,375} \end{array} \qquad \begin{array}{r} (1,841 \text{ R } 2) \\ 4 \overline{)7,366} \end{array}$$

$$\begin{array}{r} (1,735) \\ 5 \overline{)8,675} \end{array} \qquad \begin{array}{r} (1,564 \text{ R } 5) \\ 6 \overline{)9,389} \end{array}$$

- Mental multiplication (Lesson 20).

- $6 \times 55$  (330)
- $35 \times 18$  (630)
- $24 \times 4$  (96)
- $28 \times 50$  (1,400)
- $44 \times 25$  (1,100)
- $50 \times 70$  (3,500)

- Subtraction (Lesson 8). No class review is necessary.

Actual page size of both the pupil's textbook and the Teacher's Manual is 7.5" × 10.25". These pages have been slightly reduced to fit into this sample book.

Additional light-colored pages in the Teacher's Manuals give further teacher's instruction. These pages are numbered the same as the adjoining pupil's pages, preceded by T (as T-68).

### Introduction

Read a problem such as the following to the class. If possible, use cities with which the pupils are familiar.

The moon is an average of 238,857 miles away from the earth. The cities of Washington, D.C., and St. Louis, Missouri, are 845 miles apart. How many times greater is the distance from the earth to the moon than from Washington to St. Louis?

(Answer:  $238,857 \div 845 = 282 \text{ R } 567$  mi. or about  $282 \frac{2}{3}$  times.)

### Teaching Guide

- This lesson is an extension of Lesson 23. No new concepts are taught. Stress estimating as a quick way to get the right answer. All the estimates in this lesson are the correct quotient figures.
- When dividing by three-digit divisors, round to the nearest hundred to estimate.**

$$\begin{array}{r} (31 \text{ R } 96) \\ 295 \overline{)9,241} \\ \underline{885} \\ 391 \\ \underline{295} \\ 96 \end{array}$$

$$\begin{array}{r} (205 \text{ R } 22) \\ 432 \overline{)88,582} \\ \underline{864} \\ 2182 \\ \underline{2160} \\ 22 \end{array}$$