Enrich

Percent and Per Mill

A **percent** is a ratio that compares a number to 100.

$$\frac{83}{100}$$
 = 83 percent = 83% = 0.83

A ratio that compares a number to 1,000 is called a **per mill**. Just like percent, the ratio *per mill* has a special symbol, ‰.

$$\frac{83}{1,000}$$
 = 83 per mill = 83‰ = 0.083

Throughout the world, the ratio that is used most commonly is percent. However, in some countries, you will find both ratios in use.

Express each per mill as a decimal.

Express each per mill as a fraction in simplest form.

Express each fraction as a per mill.

13.
$$\frac{729}{1,000}$$

14.
$$\frac{58}{100}$$

15.
$$\frac{7}{10}$$

16.
$$\frac{1}{2}$$

17.
$$\frac{3}{4}$$

18.
$$\frac{5}{8}$$

19.
$$\frac{4}{5}$$

20.
$$\frac{17}{20}$$

21.
$$\frac{1}{3}$$

22. CHALLENGE In the United States, you will sometimes find the **mill** used as a monetary unit. What amount of money do you think is represented by 1 mill?