

Name \_\_\_\_\_

# Connecting Decimals and Fractions

Write as a decimal.

1.  $\frac{1}{4}$  \_\_\_\_\_      2.  $\frac{23}{100}$  \_\_\_\_\_      3.  $\frac{1}{5}$  \_\_\_\_\_      4.  $\frac{4}{10}$  \_\_\_\_\_      5.  $\frac{5}{8}$  \_\_\_\_\_

6.  $\frac{14}{20}$  \_\_\_\_\_      7.  $\frac{4}{5}$  \_\_\_\_\_      8.  $\frac{11}{25}$  \_\_\_\_\_      9.  $\frac{15}{50}$  \_\_\_\_\_      10.  $\frac{9}{20}$  \_\_\_\_\_

Use a calculator. Find the equivalent decimal.

11.  $\frac{5}{9}$  \_\_\_\_\_      12.  $\frac{1}{3}$  \_\_\_\_\_      13.  $\frac{5}{12}$  \_\_\_\_\_      14.  $\frac{1}{8}$  \_\_\_\_\_      15.  $\frac{4}{11}$  \_\_\_\_\_

16.  $\frac{5}{6}$  \_\_\_\_\_      17.  $\frac{3}{8}$  \_\_\_\_\_      18.  $\frac{7}{11}$  \_\_\_\_\_      19.  $\frac{1}{9}$  \_\_\_\_\_      20.  $\frac{1}{12}$  \_\_\_\_\_

Write as a fraction in simplest form.

21. 0.6 \_\_\_\_\_      22. 0.01 \_\_\_\_\_      23. 0.20 \_\_\_\_\_      24. 0.34 \_\_\_\_\_      25. 0.03 \_\_\_\_\_

26. 0.17 \_\_\_\_\_      27. 0.09 \_\_\_\_\_      28. 0.80 \_\_\_\_\_      29. 0.22 \_\_\_\_\_      30. 0.08 \_\_\_\_\_

## Mixed Applications

31. Marilyn needs to know the fractional equivalent of 0.2 in order to determine the number of servings per box of cereal. Write the fractional equivalent.

\_\_\_\_\_

32. Hector says that the decimal equivalent for  $\frac{6}{15}$  is the same as the decimal equivalent for  $\frac{2}{5}$ . Is he right? Justify your answer.

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# Connecting Decimals and Fractions

## Answer Key

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1. 0.25
2. 0.23
3. 0.2
4. 0.4
5. 0.625
6. 0.7
7. 0.8
8. 0.44
9. 0.30
10. 0.45
11.  $0.\bar{5}$
12.  $0.\bar{3}$
13.  $0.41\bar{6}$
14. 0.125
15.  $0.\bar{36}$
16.  $0.8\bar{3}$
17. 0.375
18.  $0.\bar{63}$
19.  $0.\bar{1}$
20.  $0.08\bar{3}$
21.  $\frac{3}{5}$
22.  $\frac{1}{100}$
23.  $\frac{1}{5}$
24.  $\frac{17}{50}$
25.  $\frac{3}{100}$
26.  $\frac{17}{100}$
27.  $\frac{9}{100}$
28.  $\frac{4}{5}$
29.  $\frac{11}{50}$
30.  $\frac{2}{25}$
31.  $\frac{1}{5}$
32. yes;  $\frac{6}{15} = 0.4$  and  $\frac{2}{5} = 0.4$

