

**TARGET** To calculate the decimal equivalent of a fraction by division.

**Examples**

① To find the decimal equivalent of  $\frac{3}{8}$  divide 3 by 8. 
$$\begin{array}{r} 0.375 \\ 8 \overline{)3.060} \end{array} \quad \frac{3}{8} = 0.375$$

② Use a calculator to find the decimal equivalent of  $\frac{3}{7}$  rounded to 3 decimal places.  $\boxed{3} \boxed{\div} \boxed{7} \boxed{=}$  → 0.428571428  
Answer = 0.429

**A**

Copy and complete.

①  $\frac{2}{5} = 2 \div 5 = 0.\square$

②  $\frac{3}{12} = \square \div 12 = 0.\square$

③  $\frac{1}{2} = 1 \div \square = \square$

④  $\frac{6}{10} = \square \div \square = \square$

⑤  $\square = 3 \div 4 = \square$

⑥  $\frac{4}{8} = \square \div \square = \square$

⑦  $\frac{30}{100} = \square \div \square = \square$

⑧  $\square = 5 \div \square = 0.05$

For each fraction write the decimal equivalent.

⑨  $\frac{1}{10}$

⑬  $\frac{3}{5}$

⑩  $\frac{6}{12}$

⑭  $\frac{2}{4}$

⑪  $\frac{75}{100}$

⑮  $\frac{8}{10}$

⑫  $\frac{2}{8}$

⑯  $\frac{1}{1000}$

⑰ Use a calculator to check your answers.

**B**

For each fraction:

- a) write the decimal equivalent  
b) calculate as in Example 1 above to check your answer.

①  $\frac{4}{10}$

⑦  $\frac{9}{12}$

②  $\frac{5}{8}$

⑧  $\frac{3}{6}$

③  $\frac{3}{4}$

⑨  $\frac{4}{5}$

④  $\frac{1}{5}$

⑩  $\frac{1}{4}$

⑤  $\frac{2}{8}$

⑪  $\frac{6}{8}$

⑥  $\frac{1}{8}$

⑫  $\frac{7}{10}$

Use a calculator to find the decimal equivalent. Round to 3 decimal places where necessary.

⑬  $\frac{1}{3}$

⑰  $\frac{7}{15}$

⑭  $\frac{9}{16}$

⑱  $\frac{4}{6}$

⑮  $\frac{7}{9}$

⑳  $\frac{8}{11}$

⑯  $\frac{1}{12}$

㉑  $\frac{5}{12}$

⑰  $\frac{5}{11}$

㉒  $\frac{4}{9}$

⑱  $\frac{2}{7}$

㉓  $\frac{5}{7}$

**C**

For each fraction:

- a) calculate the decimal equivalent as in Example 1 above, rounding to 3 decimal places where necessary  
b) use a calculator to check your answers.

①  $\frac{5}{9}$

⑦  $\frac{2}{3}$

②  $\frac{11}{12}$

⑧  $\frac{5}{6}$

③  $\frac{2}{6}$

⑨  $\frac{1}{9}$

④  $\frac{3}{11}$

⑩  $\frac{6}{7}$

⑤  $\frac{1}{7}$

⑪  $\frac{2}{12}$

⑥  $\frac{7}{12}$

⑫  $\frac{6}{11}$

Use a calculator to find the decimal equivalent. Round to 3 decimal places where necessary.

⑬  $\frac{5}{16}$

⑰  $\frac{1}{18}$

⑭  $\frac{10}{13}$

⑱  $\frac{49}{99}$

⑮  $\frac{1}{15}$

㉑  $\frac{9}{28}$

⑯  $\frac{39}{40}$

㉒  $\frac{15}{24}$

⑰  $\frac{6}{19}$

㉓  $\frac{31}{36}$

⑱  $\frac{9}{14}$

㉔  $\frac{3}{52}$