

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.

$$\begin{array}{r} 0.375 \\ 8 \overline{)3.300} \end{array}$$

$$\frac{3}{8} = 0.375$$

- 2 Use a calculator to find the decimal equivalent of $\frac{3}{7}$ rounded to 3 decimal places.

$$\boxed{3} \div \boxed{7} = \boxed{}$$

$$\rightarrow 0.428571428$$

$$\text{Answer} = 0.429$$

A

Copy and complete.

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

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

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

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

5 $\boxed{} = 3 \div 4 = \boxed{}$

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

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

8 $\boxed{} = 5 \div \boxed{} = 0.05$

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 $\frac{1}{3}$

19 $\frac{7}{15}$

14 $\frac{9}{16}$

20 $\frac{4}{6}$

15 $\frac{7}{9}$

21 $\frac{8}{11}$

16 $\frac{1}{12}$

22 $\frac{5}{12}$

17 $\frac{5}{11}$

23 $\frac{4}{9}$

18 $\frac{2}{7}$

24 $\frac{5}{7}$

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 $\frac{5}{16}$

19 $\frac{1}{18}$

14 $\frac{10}{13}$

20 $\frac{49}{99}$

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 $\frac{3}{52}$