Fractions like $\frac{2}{3}$ and $\frac{3}{4}$ are said to be in lowest terms since 1 is the greatest whole number that will divide both the numerator and denominator of the fraction evenly.

17 Tell whether or not each fraction is in lowest terms. Explain how you know.
   a. $\frac{3}{6}$ 
   b. $\frac{21}{29}$ 
   c. $\frac{5}{8}$ 
   d. $\frac{11}{66}$

18 CHECKPOINT For each fraction, write an equivalent fraction in lowest terms.
   a. $\frac{7}{14}\ 2$ 
   b. $\frac{10}{30}\ 3$ 
   c. $\frac{6}{48}\ 8$ 
   d. $\frac{25}{125}\ 5$

Calculating Equivalents A fraction calculator can be used to find equivalent fractions, in particular equivalent fractions in lowest terms.

19 Fraction Calculator Enter the key sequence $1\ 8\ \div\ 2\ 4$ on your calculator.
   a. What number appears on the display?
   b. Now press $\text{SIMP} \Rightarrow$. What number appears on the display? What did the calculator do to get that number?
   c. Press $\text{SIMP} \Rightarrow$ again. What number appears on the display? What did the calculator do?
   d. What happens if you press $\text{SIMP} \Rightarrow$ again? Why do you think this happens?

20 a. Enter the fraction $\frac{16}{28}$ on your calculator. Check students' work.
   b. Press $\text{SIMP} \Rightarrow$ repeatedly to find an equivalent fraction in lowest terms. $\frac{4}{7}$

21 Use your calculator to tell if each pair of fractions is equivalent.
   a. $\frac{27}{45}\ \frac{5}{7}$ 
   b. $\frac{85}{272}\ \frac{20}{64}$ 
   c. $\frac{14}{49}\ \frac{2}{7}$

HOMEWORK EXERCISES See Exs. 10-28 on pp. 116-117.

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