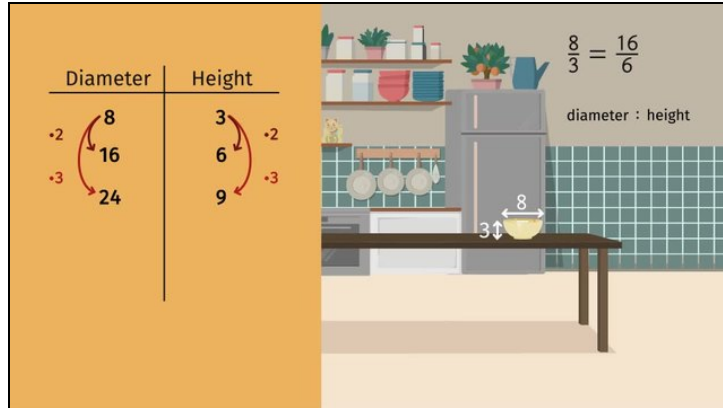


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# Determining Equivalent Ratios



- 1 Decide which fractions are equivalent to each other.
- 2 Explain what happens if we enlarge the bowl using ratios and ratio tables.
- 3 Define various key words related to ratios.
- 4 Solve the real-world problem using a ratio table.
- 5 Identify which ratios are equivalent to the ratios displayed in the central elements.
- 6 Complete the Ratio Tables.
- + with many hints, answer keys, and solution approaches for all tasks



The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

**Decide which fractions are equivalent to each other.**

Match equivalent fractions.

$$\frac{3}{4}$$

A

$$\frac{15}{21}$$

B

$$12$$

C

$$\frac{20}{6}$$

D

$$1$$

E

$$\frac{3}{33}$$

F

$$\frac{11}{121}$$

1

$$\frac{24}{2}$$

2

$$\frac{14}{14}$$

3

$$\frac{5}{7}$$

4

$$\frac{6}{8}$$

5

$$\frac{50}{15}$$

6

## Our hints for the tasks

1  
from 6

### Decide which fractions are equivalent to each other.

#### 1. Hint

To reduce a fraction:

- Look for a **common factor** in the numerator and denominator.
- Divide the numerator and denominator by the common factor.
- Repeat this process until there are no more common factors.

Here are some examples:

Fraction	Common Factor	Reduced Result
$\frac{6}{15}$	3	$\frac{2}{5}$
$\frac{21}{42}$	21	$\frac{1}{2}$
$\frac{40}{32}$	8	$\frac{5}{4}$

#### 2. Hint

Two fractions can be equivalent even though neither of them is reduced. Reduce each fraction and compare their results to determine if they are equivalent. Here are some examples:

1st Fraction	2nd Fraction	Equivalent?
$\frac{12}{21} = \frac{4}{7}$	$\frac{24}{42} = \frac{4}{7}$	yes
$\frac{12}{15} = \frac{4}{5}$	$\frac{15}{18} = \frac{5}{6}$	no
$\frac{10}{30} = \frac{1}{3}$	$\frac{30}{60} = \frac{1}{2}$	no

#### 3. Hint

A whole number can be written as a fraction.  $9 = \frac{9}{1}$ .

## Solutions and solution approaches for the tasks

1  
from 6**Decide which fractions are equivalent to each other.****Answer key:** A—5 // B—4 // C—2 // D—6 // E—3 // F—1

1st Fraction	2nd Fraction
$\frac{3}{4}$	$\frac{6}{8} = \frac{3}{4}$
$\frac{15}{21} = \frac{5}{7}$	$\frac{5}{7}$
$12 = \frac{12}{1}$	$\frac{24}{2} = \frac{12}{1}$
$\frac{20}{6} = \frac{10}{3}$	$\frac{50}{15} = \frac{10}{3}$
$1 = \frac{1}{1}$	$\frac{14}{14} = \frac{1}{1}$

Here is a table showing reducing to find the equivalent fractions.