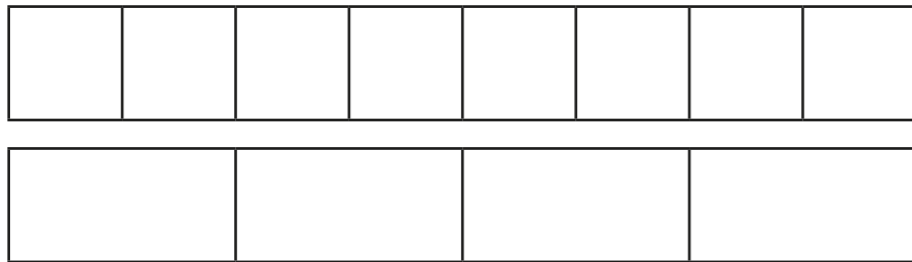# Compare and order fractions less than 1
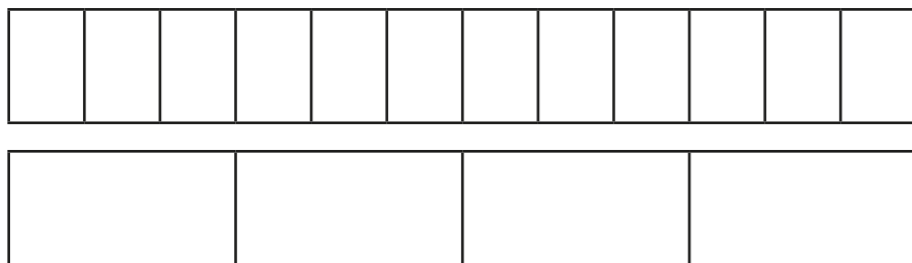
1 Write <, > or = to compare the fractions.
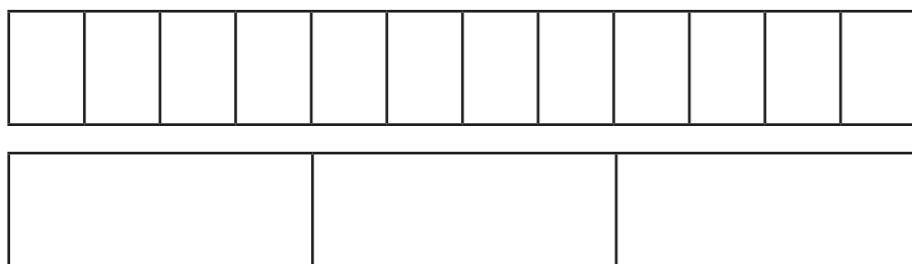
Use the bar models to help you.

$\dfrac{7}{8}$ ◯ $\dfrac{3}{4}$

$\dfrac{9}{12}$ ◯ $\dfrac{3}{4}$

$\dfrac{7}{12}$ ◯ $\dfrac{2}{3}$

2 Write <, > or = to compare the fractions.

a) $\dfrac{1}{5}$ ◯ $\dfrac{4}{15}$

b) $\dfrac{2}{5}$ ◯ $\dfrac{4}{15}$

c) $\dfrac{2}{5}$ ◯ $\dfrac{6}{15}$

d) $\dfrac{2}{3}$ ◯ $\dfrac{6}{15}$

e) $\dfrac{2}{3}$ ◯ $\dfrac{6}{12}$

f) $\dfrac{2}{3}$ ◯ $\dfrac{6}{9}$

g) $\dfrac{2}{9}$ ◯ $\dfrac{1}{3}$

h) $\dfrac{4}{9}$ ◯ $\dfrac{1}{3}$

i) $\dfrac{4}{12}$ ◯ $\dfrac{1}{3}$

j) $\dfrac{8}{12}$ ◯ $\dfrac{2}{3}$
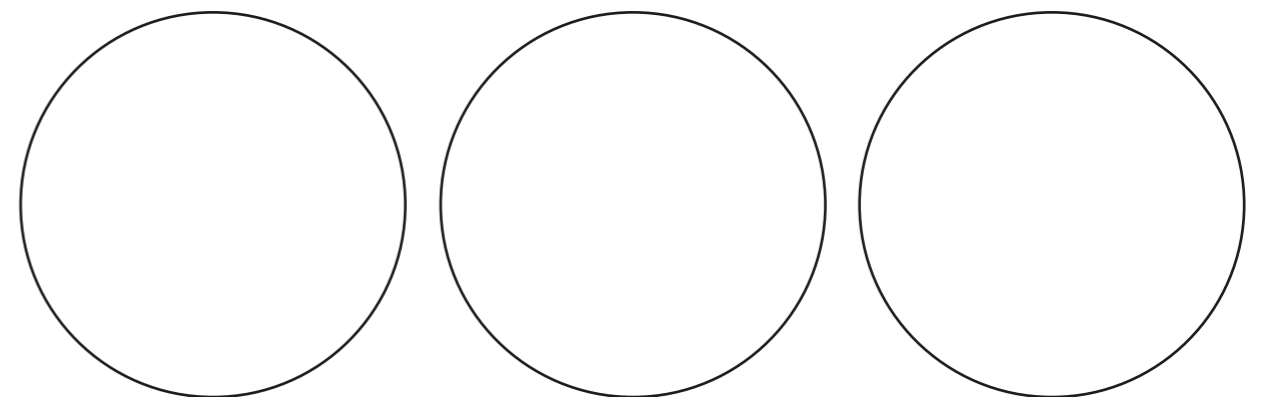
k) $\dfrac{8}{12}$ ◯ $\dfrac{3}{3}$

l) $\dfrac{8}{12}$ ◯ $\dfrac{3}{4}$

3 Sort the fractions into the circles.

greater than $\dfrac{1}{3}$ equal to $\dfrac{1}{3}$ less than $\dfrac{1}{3}$

$\dfrac{2}{3}$ $\dfrac{1}{6}$ $\dfrac{1}{2}$ $\dfrac{2}{6}$ $\dfrac{2}{9}$ $\dfrac{5}{12}$ $\dfrac{4}{12}$ $\dfrac{4}{15}$ $\dfrac{5}{15}$

4 What could the missing numerators and denominators be?

Write a number in each box to make the statements correct.

a) $\dfrac{\boxed{}}{5} < \dfrac{5}{15}$

d) $\dfrac{\boxed{}}{3} < \dfrac{5}{6}$

g) $\dfrac{6}{9} < \dfrac{5}{\boxed{}}$

b) $\dfrac{\boxed{}}{6} < \dfrac{5}{12}$

e) $\dfrac{3}{5} < \dfrac{5}{\boxed{}}$

h) $\dfrac{10}{12} < \dfrac{5}{\boxed{}}$

c) $\dfrac{\boxed{}}{12} < \dfrac{5}{6}$

f) $\dfrac{5}{6} < \dfrac{5}{\boxed{}}$

i) $\dfrac{23}{24} < \dfrac{5}{\boxed{}}$

Compare answers with a partner.

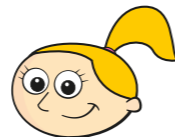**5** Tommy and Eva are comparing fractions.

$\boxed{\dfrac{2}{3}}$ $\boxed{\dfrac{8}{12}}$ $\boxed{\dfrac{4}{9}}$

> I found a common denominator of 36 to compare the fractions.

Tommy

> I found a common numerator of 4 to compare the fractions.

Eva

Whose method is more efficient? _____

Talk about your answer with a partner.

6 Write the fractions in ascending order.

a) $\dfrac{2}{5}, \ \dfrac{2}{7}, \ \dfrac{2}{3}, \ \dfrac{2}{4}, \ \dfrac{2}{10}$

$\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$

b) $\dfrac{2}{3}, \ \dfrac{5}{9}, \ \dfrac{1}{9}, \ \dfrac{5}{6}, \ \dfrac{2}{9}$

$\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$

c) $\dfrac{3}{5}, \ \dfrac{7}{10}, \ \dfrac{1}{2}, \ \dfrac{3}{10}, \ \dfrac{1}{5}$

$\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$

d) $\dfrac{3}{8}, \ \dfrac{6}{17}, \ \dfrac{12}{30}, \ \dfrac{2}{7}, \ \dfrac{1}{3}$

$\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$ $\boxed{}$

7 What could the missing numerator be?

$\dfrac{3}{5} < \dfrac{\boxed{}}{15} < \dfrac{9}{10}$

Write all four possibilities.

$\dfrac{\boxed{}}{15}$ $\dfrac{\boxed{}}{15}$ $\dfrac{\boxed{}}{15}$ $\dfrac{\boxed{}}{15}$