

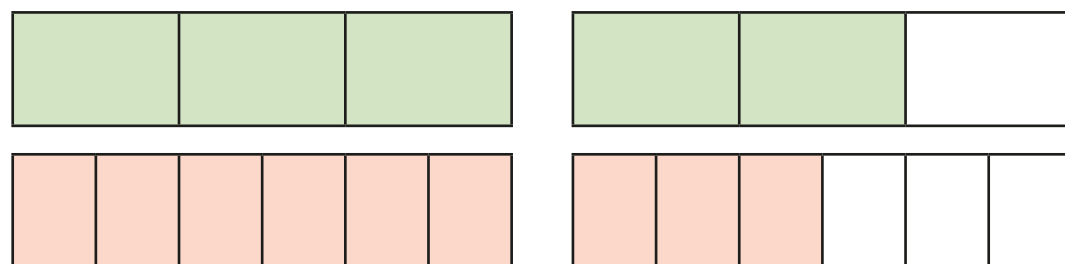
# Compare and order fractions greater than 1



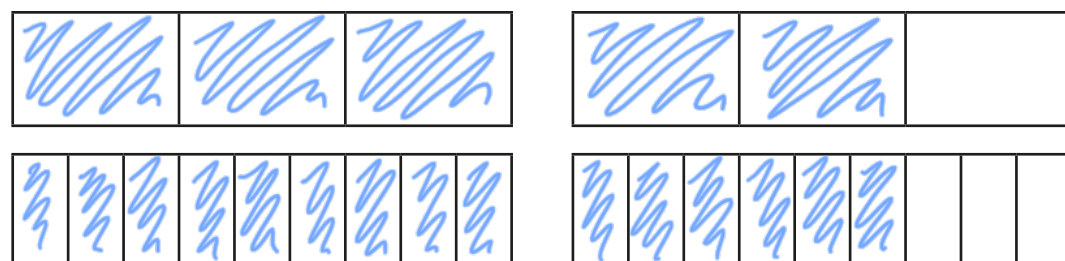
1 Write  $<$ ,  $>$  or  $=$  to compare the fractions.

Use the bar models to help you.

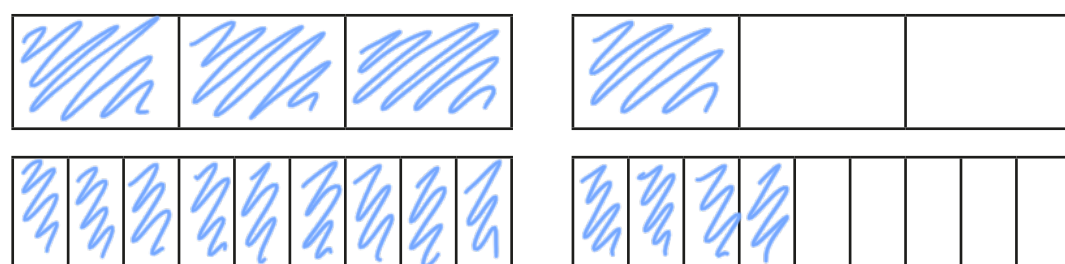
a)  $\frac{5}{3}$   $>$   $\frac{9}{6}$



b)  $\frac{5}{3}$   $=$   $\frac{15}{9}$



c)  $\frac{4}{3}$   $<$   $\frac{13}{9}$



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

a)  $\frac{7}{4}$   $>$   $\frac{12}{8}$

d)  $\frac{10}{6}$   $=$   $\frac{5}{3}$

g)  $\frac{18}{8}$   $>$   $\frac{32}{16}$

b)  $\frac{7}{4}$   $<$   $\frac{22}{12}$

e)  $\frac{10}{6}$   $<$   $\frac{5}{2}$

h)  $\frac{18}{8}$   $=$   $\frac{9}{4}$

c)  $\frac{22}{12}$   $>$   $\frac{10}{6}$

f)  $\frac{5}{2}$   $>$   $\frac{18}{8}$

i)  $\frac{9}{4}$   $<$   $\frac{18}{2}$

3 Filip has  $3\frac{3}{16}$  bottles of juice.

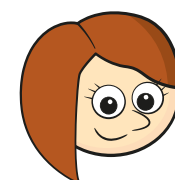
Scott has  $3\frac{1}{4}$  bottles of juice.

Who has more juice?

Scott has more juice.

4 Rosie's ribbon is  $\frac{7}{4}$  metres long.

Teddy's ribbon is  $\frac{7}{8}$  metres long.



Our ribbons are the same length.

Explain why Rosie is wrong.

The number of parts is the same but the size of their parts is different. Rosie's ribbon is longer.

5 Write the fractions in descending order.

a)  $\frac{8}{3}, \frac{4}{5}, \frac{8}{15}, \frac{8}{2}, \frac{16}{8}$

$\frac{8}{2}$   $\frac{8}{3}$   $\frac{16}{8}$   $\frac{4}{5}$   $\frac{8}{15}$

b)  $\frac{7}{3}, \frac{12}{9}, \frac{15}{9}, \frac{15}{6}, \frac{7}{9}$

$\frac{15}{6}$   $\frac{7}{3}$   $\frac{15}{9}$   $\frac{12}{9}$   $\frac{7}{9}$

c)  $\frac{14}{5}, \frac{17}{10}, \frac{27}{10}, \frac{3}{1}, \frac{42}{20}$

$\frac{3}{1}$   $\frac{14}{5}$   $\frac{27}{10}$   $\frac{42}{20}$   $\frac{17}{10}$

6 Find three possible ways to complete each statement.

a)  $\frac{1}{4} < \frac{2}{4} < \frac{9}{8}$

$\frac{1}{4} < \frac{3}{4} < \frac{9}{8}$

$\frac{1}{4} < \frac{4}{4} < \frac{9}{8}$

c)  $\frac{4}{5} < \frac{8}{8} < \frac{8}{4}$

$\frac{4}{5} < \frac{8}{7} < \frac{8}{4}$

$\frac{4}{5} < \frac{8}{6} < \frac{8}{4}$

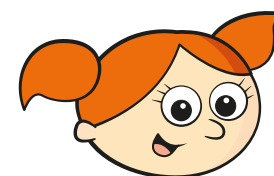
b)  $\frac{1}{4} < \frac{4}{15} < \frac{7}{15}$

$\frac{1}{4} < \frac{5}{15} < \frac{7}{15}$

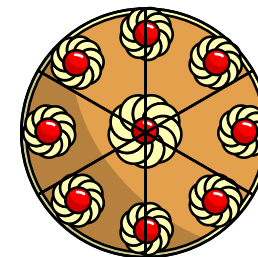
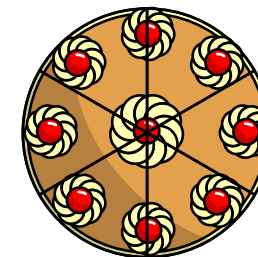
$\frac{1}{4} < \frac{6}{15} < \frac{7}{15}$

7 Alex and Dora each have two identical cakes.

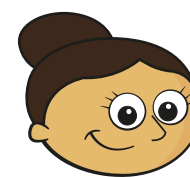
Alex cuts each of her cakes into 6 equal pieces and gives 10 of her friends a piece each.



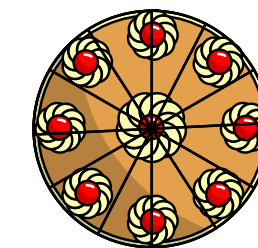
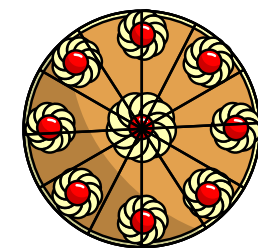
Alex



Dora cuts each of her cakes into 12 equal pieces and gives 18 of her friends a piece each.



Dora



Who has more cake left?

Dora has more cake left.

8 The greater the numerator, the greater the fraction.

Give at least three examples to show that the statement is not correct.

Various answers e.g.  $\frac{3}{17} < \frac{1}{2}$

