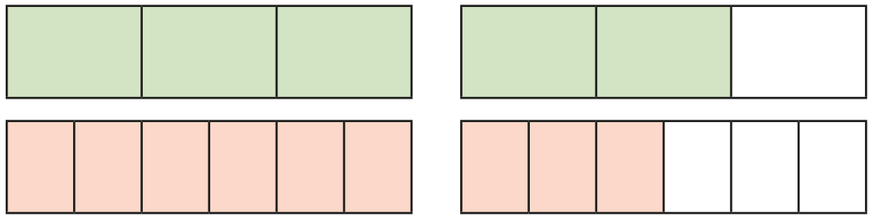
Compare and order fractions greater than 1

White Rose MATHS

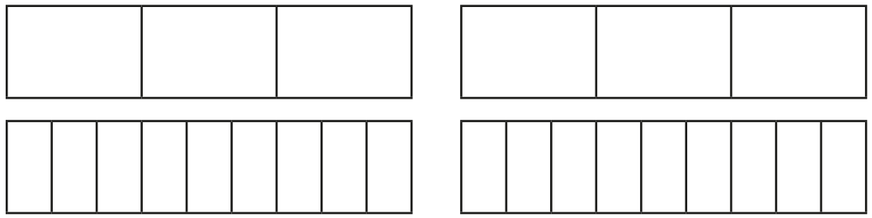
1 Write <, > or = to compare the fractions.

Use the bar models to help you.

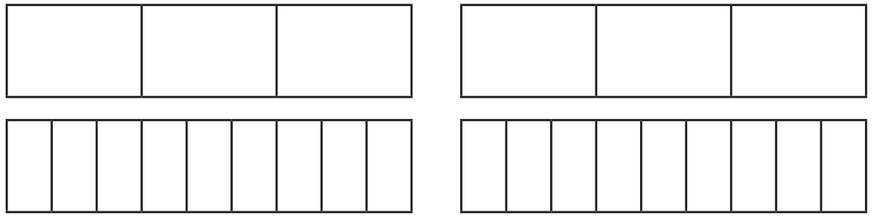
a) $\frac{5}{3}$ ◯ $\frac{9}{6}$



b) $\frac{5}{3}$ ◯ $\frac{15}{9}$



c) $\frac{4}{3}$ ◯ $\frac{13}{9}$



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

a) $\frac{7}{4}$ ◯ $\frac{12}{8}$

b) $\frac{7}{4}$ ◯ $\frac{22}{12}$

c) $\frac{22}{12}$ ◯ $\frac{10}{6}$

d) $\frac{10}{6}$ ◯ $\frac{5}{3}$

e) $\frac{10}{6}$ ◯ $\frac{5}{2}$

f) $\frac{5}{2}$ ◯ $\frac{18}{8}$

g) $\frac{18}{8}$ ◯ $\frac{32}{16}$

h) $\frac{18}{8}$ ◯ $\frac{9}{4}$

i) $\frac{9}{4}$ ◯ $\frac{18}{2}$

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

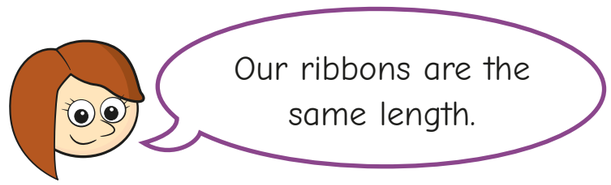
Scott has $3\frac{1}{4}$ bottles of juice.

Who has more juice?

_____

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

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



Explain why Rosie is incorrect.

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_____

5 Write the fractions in descending order.

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

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

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

6 Find three possible ways to complete each statement.

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

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

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

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

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

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

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

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

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

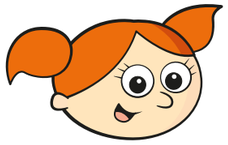
d) $\frac{15}{3} > \square > \frac{28}{7}$

$\frac{15}{3} > \square > \frac{28}{7}$

$\frac{15}{3} > \square > \frac{28}{7}$

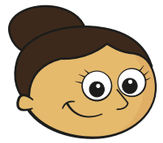
7 Alex and Dora each have two identical cakes.

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?

8

> The greater the numerator, the greater the fraction.

Give at least three examples to show that the statement is incorrect.