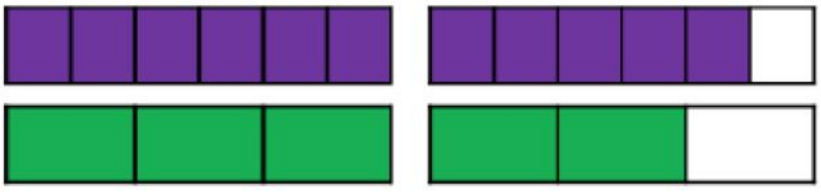
20.01.21 **Comparing and ordering fractions - Extension**

Use a bar model to compare $1\frac{2}{3}$ and $1\frac{5}{6}$



$\square > \square$

$\square < \square$

Use this method to help you compare:

$1\frac{3}{4}$ and $1\frac{3}{8}$ $1\frac{5}{8}$ and $1\frac{1}{2}$ $2\frac{3}{7}$ and $2\frac{9}{14}$

3 Use <, > or = to complete each statement.

a) $3\frac{1}{5} \bigcirc 3\frac{4}{5}$

b) $\frac{13}{5} \bigcirc \frac{17}{5}$

c) $\frac{15}{5} \bigcirc 3\frac{3}{5}$

d) $4\frac{2}{5} \bigcirc \frac{23}{5}$

e) $4\frac{2}{6} \bigcirc \frac{23}{6}$

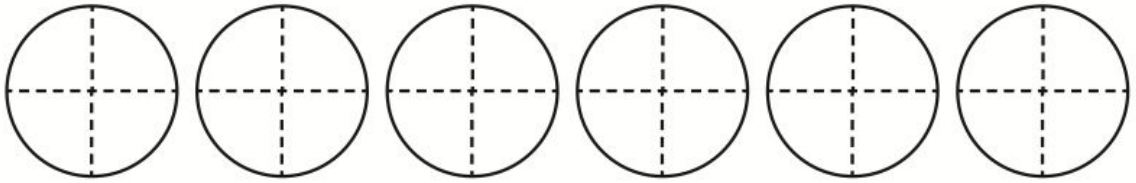
f) $\frac{23}{7} \bigcirc 4\frac{2}{7}$

4 Kate and Lee are cycling laps around a track.

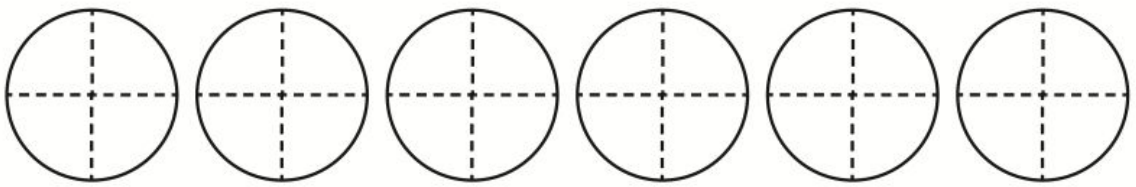
Kate has completed $5\frac{3}{4}$ laps. Lee has completed $5\frac{3}{8}$ laps.

Who has cycled farther? Show this using the diagrams.

Kate



Lee



5 Complete each statement.

a) $2\frac{7}{8}$ ◯ $4\frac{3}{4}$

b) $3\frac{2}{3}$ ◯ $3\frac{1}{6}$

c) $5\frac{1}{5}$ ◯ $5\frac{2}{10}$

d) $6\frac{3}{6} < 6\frac{\square}{3}$

e) $\frac{31}{5}$ ◯ $\frac{31}{10}$

f) $\frac{41}{6}$ ◯ $\frac{41}{2}$

g) $\frac{21}{2}$ ◯ $\frac{41}{4}$

h) $\frac{13}{3}$ ◯ $\frac{39}{9}$

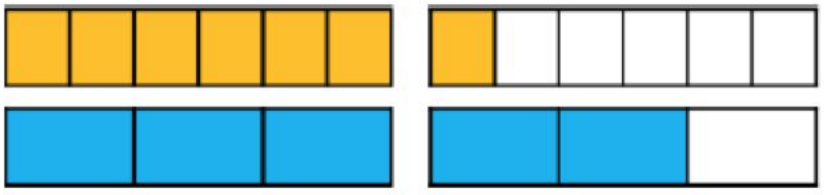
i) $\frac{21}{5}$ ◯ $2\frac{1}{5}$

j) $\frac{31}{10}$ ◯ $3\frac{1}{10}$

k) $5\frac{1}{3}$ ◯ $\frac{31}{6}$

l) $4\frac{4}{9}$ ◯ $\frac{13}{3}$

Use bar models to compare $\frac{7}{6}$ and $\frac{5}{3}$



$\square > \square$

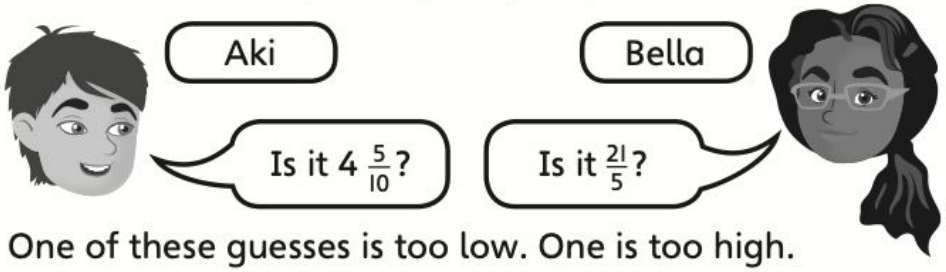
$\square < \square$

Use this method to help you compare:

$\frac{5}{2}$ and $\frac{9}{4}$ $\frac{11}{6}$ and $\frac{5}{3}$ $\frac{9}{4}$ and $\frac{17}{8}$

CHALLENGE

6 **a)** Aki and Bella are guessing a mystery number.



One of these guesses is too low. One is too high.

Write three different fractions the mystery number could be.

_____

Order these fractions – Aki's, Bella's and the three you have written.

$\square < \square < \square < \square < \square$

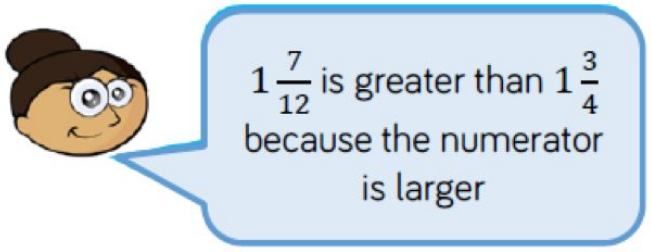
b) Write five different fractions between $3\frac{3}{8}$ and $\frac{53}{16}$.

Place these fractions in order from greatest to smallest.

_____

Dora looks at the fractions $1\frac{7}{12}$ and $1\frac{3}{4}$

She says,

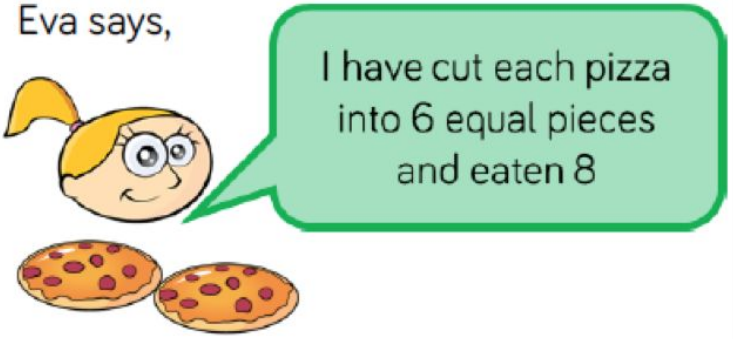


Do you agree?

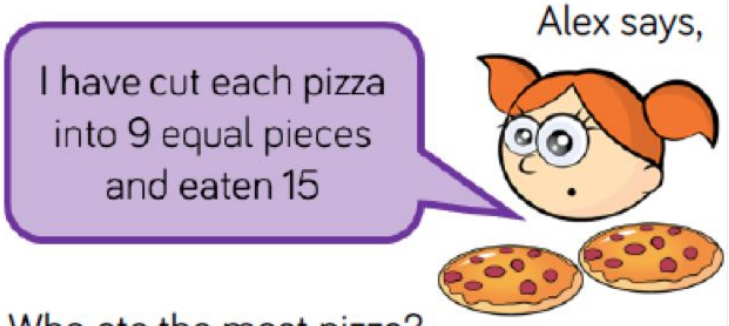
Explain why using a model.

Eva and Alex each have two identical pizzas.

Eva says,



Alex says,



Who ate the most pizza?

Use a drawing to support your answer.