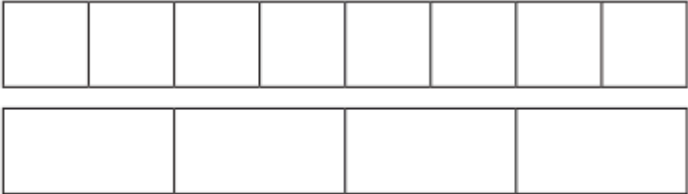
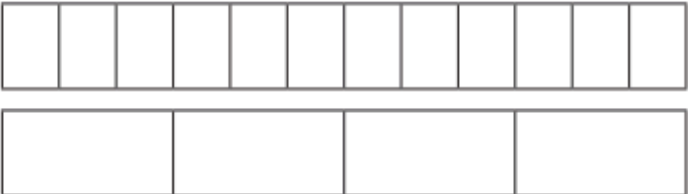
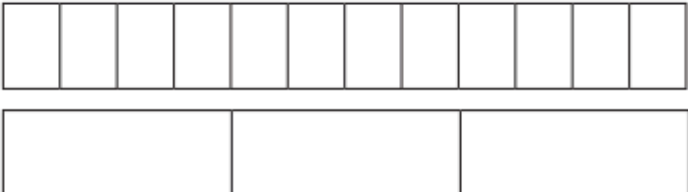


LO: To compare and order fractions less than 1

1. Shade the bar models to show the fractions then use $<$ $>$ or $=$ to compare the fractions.

a)  $\frac{7}{8} \bigcirc \frac{3}{4}$

b)  $\frac{9}{12} \bigcirc \frac{3}{4}$

c)  $\frac{7}{12} \bigcirc \frac{2}{3}$

2. Compare the fractions using $<$ $>$ or $=$. You may want to draw the fractions.

a) $\frac{1}{5} \bigcirc \frac{4}{15}$

g) $\frac{2}{9} \bigcirc \frac{1}{3}$

b) $\frac{2}{5} \bigcirc \frac{4}{15}$

h) $\frac{4}{9} \bigcirc \frac{1}{3}$

c) $\frac{2}{5} \bigcirc \frac{6}{15}$

i) $\frac{4}{12} \bigcirc \frac{1}{3}$

d) $\frac{2}{3} \bigcirc \frac{6}{15}$

j) $\frac{8}{12} \bigcirc \frac{2}{3}$

e) $\frac{2}{3} \bigcirc \frac{6}{12}$

k) $\frac{8}{12} \bigcirc \frac{3}{3}$

f) $\frac{2}{3} \bigcirc \frac{6}{9}$

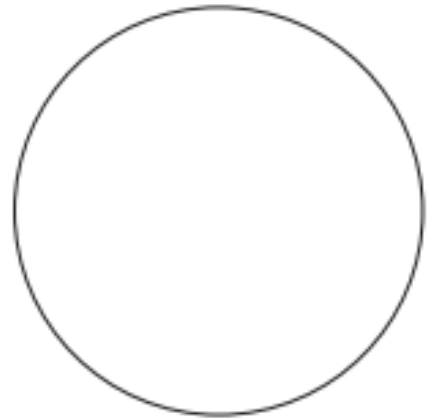
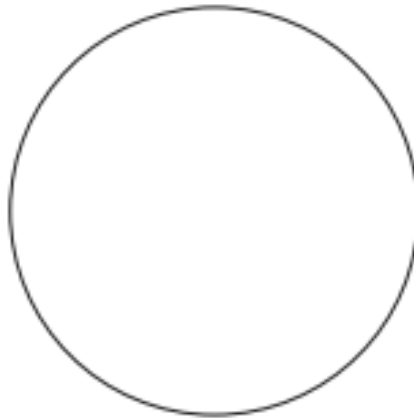
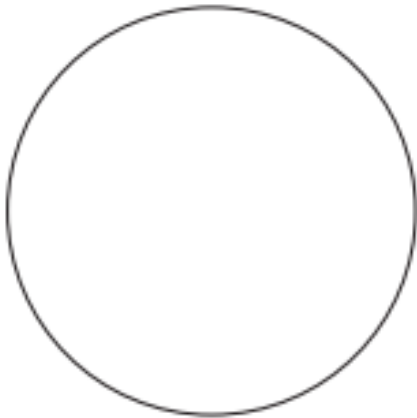
l) $\frac{8}{12} \bigcirc \frac{3}{4}$

3. Sort the fractions into the correct group. Either write the fraction or the letter.

< 1/3

= 1/3

> 1/3



A $\frac{2}{3}$

B $\frac{1}{6}$

C $\frac{1}{2}$

D $\frac{2}{6}$

E $\frac{2}{9}$

F $\frac{5}{12}$

G $\frac{4}{12}$

H $\frac{4}{15}$

I $\frac{5}{15}$

4. What could the missing numerators and denominators ? Write a number in each box to make the number sentences correct.

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

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

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

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

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

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

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

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

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

Challenge: 'The greater the denominator, the greater the fraction'.
Give three examples that show the statement is incorrect.

Example 1

$$\frac{\boxed{}}{\boxed{}} < \frac{\boxed{}}{\boxed{}}$$

Example 2

$$\frac{\boxed{}}{\boxed{}} < \frac{\boxed{}}{\boxed{}}$$


Example 3

$$\frac{\boxed{}}{\boxed{}} < \frac{\boxed{}}{\boxed{}}$$

LO: To order and compare fractions less than 1


1. Tommy and Eva are comparing fraction. Whose method is the most efficient? Explain your answer.

$\frac{2}{3}$	$\frac{8}{12}$	$\frac{4}{9}$
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Tommy

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



Eva

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

_____ has the most efficient method because _____

2. Write the fractions in ascending order. Show your working out by writing any equivalent fractions you found and used in the box, this will help me when I mark your answers to check your understanding.

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

Equivalent fractions

_____ / _____ / _____ / _____ / _____

smallest largest

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

Equivalent fractions

_____ / _____ / _____ / _____ / _____

smallest largest

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

Equivalent fractions

_____ / _____ / _____ / _____ / _____

smallest largest

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

Equivalent fractions

_____ / _____ / _____ / _____ / _____

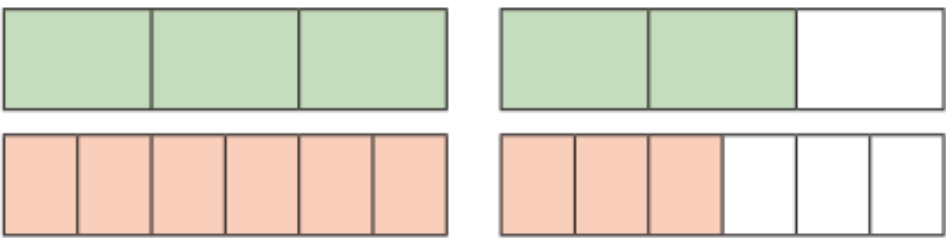
smallest largest

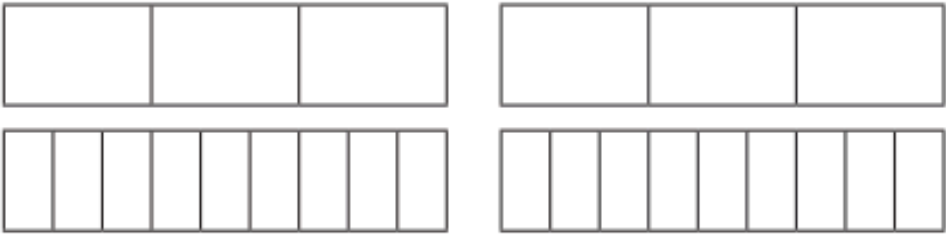
3. What could the missing numerator be? Write all four possibilities.

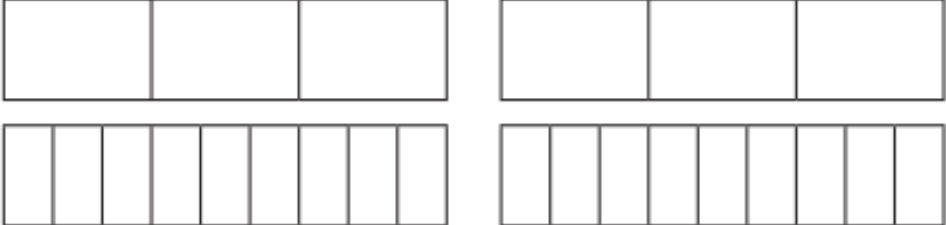
$\frac{3}{5} < \frac{\square}{15} < \frac{9}{10}$	$\frac{\square}{15}$	$\frac{\square}{15}$	$\frac{\square}{15}$	$\frac{\square}{15}$
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LO: To compare and order fractions greater than 1

1. Shade in the bar model and compare the fractions using $, >$ or $=$.

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

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

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

2. Write $<$ $>$ or $=$ to compare the fractions. You may want to draw the fractions to help you.

a) $\frac{7}{4} \bigcirc \frac{12}{8}$ d) $\frac{10}{6} \bigcirc \frac{5}{3}$ g) $\frac{18}{8} \bigcirc \frac{32}{16}$

b) $\frac{7}{4} \bigcirc \frac{22}{12}$ e) $\frac{10}{6} \bigcirc \frac{5}{2}$ h) $\frac{18}{8} \bigcirc \frac{9}{4}$

c) $\frac{22}{12} \bigcirc \frac{10}{6}$ f) $\frac{5}{2} \bigcirc \frac{18}{8}$ i) $\frac{9}{4} \bigcirc \frac{18}{2}$

3. Filip has $3\frac{3}{16}$ bottles of juice. Scott has $3\frac{1}{4}$ bottles of juice. Who has more? _____ has more juice.

4. Rosie's ribbon is $\frac{7}{4}$ metres long. Teddy's ribbon is $\frac{7}{8}$ metres long. Explain why Rosie is wrong.

Rosie is wrong because...



Our ribbons are the same length.

LO: To compare and order fractions greater than 1

1. Write the fractions in descending order. Show your working out by writing any equivalent fractions you used in the box, this will help me see how much you have understood when I mark your work.

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

_____ / _____ / _____ / _____ / _____
Biggest smallest

Equivalent fractions

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

_____ / _____ / _____ / _____ / _____
Biggest smallest

Equivalent fractions

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

_____ / _____ / _____ / _____ / _____
Biggest smallest

Equivalent fractions

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

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

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

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

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

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

3. Alex and Dora each have two identical cakes.

Alex cuts each of her cakes into 6 equal pieces and gives away 10 pieces to her friends.

Dora cuts each of her cakes into 12 equal pieces and gives away 18 pieces to her friends

Who has more cake left? Show your working out.



Alex





Dora





LO: To add and subtract fractions with the same denominator

1. Using the bar models, complete the calculations. Give your answer as an improper fractions **and** a mixed number.

a)  $\frac{4}{5} + \frac{3}{5} = \boxed{} = \overset{\text{mixed number}}{\boxed{}} \underset{\text{improper fraction}}{\boxed{}}$

b)  $\frac{6}{5} + \frac{3}{5} = \boxed{} = \boxed{}$

c)  $\frac{8}{5} - \frac{6}{5} = \boxed{}$

d)  $\frac{9}{5} - \frac{3}{5} = \boxed{} = \boxed{}$

2. Complete the calculations. Give your answer as an improper fraction **and** a mixed number.

a) $\frac{4}{7} + \frac{2}{7} = \boxed{}$

f) $\frac{17}{9} - \frac{8}{9} = \boxed{} = \boxed{}$

b) $\frac{4}{7} + \frac{3}{7} = \boxed{} = \boxed{}$

g) $\frac{16}{9} - \frac{8}{9} = \boxed{}$

c) $\frac{4}{7} + \frac{4}{7} = \boxed{} = \boxed{}$

h) $\frac{7}{9} + \frac{2}{9} + \frac{8}{9} = \boxed{} = \boxed{}$

d) $\frac{8}{7} - \frac{3}{7} = \boxed{}$

i) $\frac{7}{15} + \frac{2}{15} + \frac{8}{15} = \boxed{} = \boxed{}$

e) $\frac{7}{9} + \frac{8}{9} = \boxed{} = \boxed{}$

j) $\frac{7}{15} - \frac{2}{15} + \frac{8}{15} = \boxed{}$

3. What could the missing numerators be? Give 6 different possible answers.

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

$$\frac{\square}{8} + \frac{\square}{8} = \frac{13}{8}$$

4. Fill in the missing numerators.

a) $\frac{3}{8} + \frac{\square}{8} = \frac{13}{8}$

g) $\frac{4}{7} + \frac{\square}{7} + \frac{4}{7} = 2$

b) $\frac{13}{8} - \frac{\square}{8} = \frac{7}{8}$

h) $\frac{5}{7} + \frac{\square}{7} + \frac{5}{7} = 2$

c) $\frac{13}{8} - \frac{\square}{8} = 1$

i) $\frac{6}{7} + \frac{\square}{7} + \frac{6}{7} = 2$

d) $\frac{11}{9} + \frac{\square}{9} = \frac{22}{9} = 2\frac{\square}{9}$

j) $\frac{14}{7} + \frac{\square}{7} + \frac{4}{7} = 3$

e) $\frac{11}{9} + \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

k) $\frac{15}{7} + \frac{\square}{7} + \frac{5}{7} = 3$

f) $\frac{22}{9} - \frac{\square}{9} = \frac{\square}{9} = 2\frac{2}{9}$

l) $\frac{16}{7} + \frac{\square}{7} + \frac{6}{7} = 4$

5. Dora has $2\frac{3}{8}$ L of juice. She pours out $\frac{9}{8}$ L of juice. How many litres of juice does she have left? ____ litres.

6. Annie and Dexter both have a skipping rope. Annie's rope is $\frac{3}{4}$ m shorter than Dexter's rope. The ropes are $\frac{13}{4}$ m altogether. How long is each skipping rope? Use the bar models to help you.

Annie

Dexter

Annie's rope is ____ m long.

Dexter's rope is ____ m long.