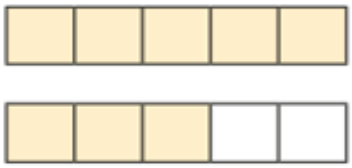
Wednesday 8.1.25

MPI *Convert improper fractions to mixed numbers*

Convert the improper fractions to mixed numbers.

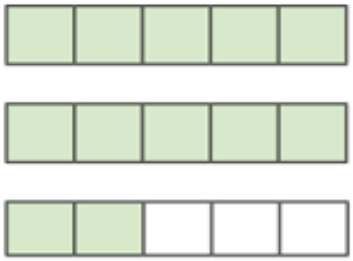
a)



Improper Fraction Mixed number

=

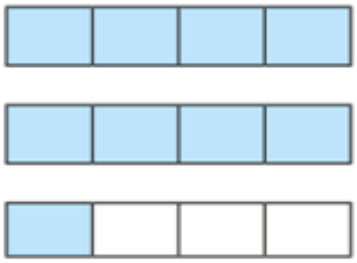
b)



Improper Fraction Mixed number

=

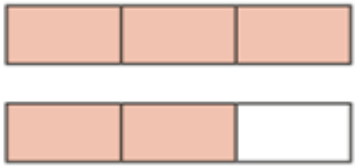
c)



Improper Fraction Mixed number

=

d)



Improper Fraction Mixed number

=

Convert the improper fractions to mixed numbers.

a) $\frac{10}{2}$ c) $\frac{10}{4}$ e) $\frac{12}{5}$ g) $\frac{13}{7}$

b) $\frac{10}{3}$ d) $\frac{10}{5}$ f) $\frac{13}{6}$ h) $\frac{31}{8}$

Wednesday 8.1.25 Challenge

MPI *Convert improper fractions to mixed numbers*

Find the value of ●

$$\frac{27}{●} = ● \frac{2}{●}$$

Find two possible values for ★ and ▲

$$\frac{30}{★} = ▲ \frac{2}{★}$$

Wednesday 8.1.25 Challenge

MPI *Convert improper fractions to mixed numbers*

Find the value of ●

$$\frac{27}{●} = ● \frac{2}{●}$$

Find two possible values for ★ and ▲

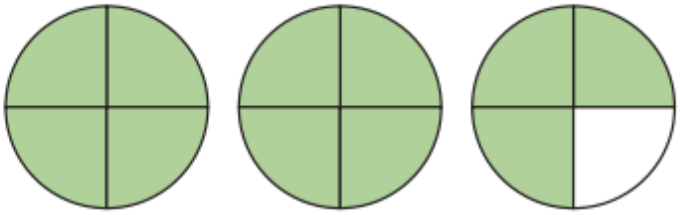
$$\frac{30}{★} = ▲ \frac{2}{★}$$

Thursday 9.1.25

MPI *Convert mixed numbers to improper fractions*

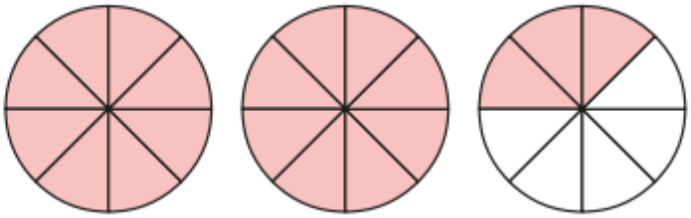
Convert the mixed numbers to improper fractions.

a)



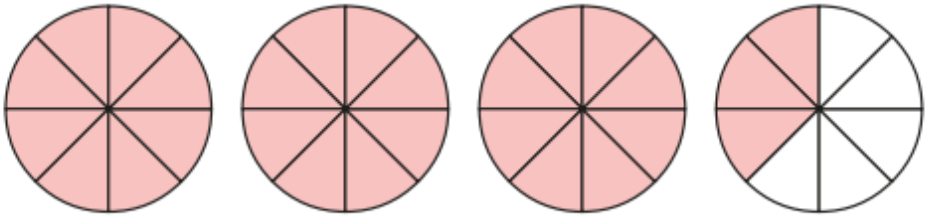
$2\frac{3}{4} = \frac{\square}{4}$

b)



$2\frac{3}{8} = \frac{\square}{8}$

c)



$3\frac{3}{8} = \frac{\square}{8}$

Convert the mixed numbers to improper fractions.

Draw bar models to help you.

a) $2\frac{1}{4}$ **b)** $2\frac{1}{3}$ **c)** $3\frac{1}{3}$ **d)** $3\frac{2}{5}$

Thursday 9.1.25 Challenge

MPI *Convert mixed numbers to improper fractions*

$$\bigcirc \frac{3}{5} = \frac{\triangle}{5}$$

Complete the table to show some possible values for the circle and the triangle.

○	1	2	4	8	16		
△						88	803

Thursday 9.1.25 Challenge

MPI *Convert mixed numbers to improper fractions*

$$\bigcirc \frac{3}{5} = \frac{\triangle}{5}$$

Complete the table to show some possible values for the circle and the triangle.

○	1	2	4	8	16		
△						88	803

Monday 13.1.25

MPI *Comparing fractions less than 1*

Identify the greater fraction in each pair.

- $\frac{3}{7}$ and $\frac{5}{7}$
- $\frac{9}{11}$ and $\frac{2}{11}$
- $\frac{2}{3}$ and $\frac{2}{15}$
- $\frac{1}{8}$ and $\frac{1}{3}$
- $\frac{4}{15}$ and $\frac{4}{100}$
- $\frac{11}{20}$ and $\frac{19}{20}$

Write <, > or = to compare the fractions.

a) $\frac{7}{9}$ ◯ $\frac{4}{9}$

b) $\frac{5}{12}$ ◯ $\frac{7}{12}$

c) $\frac{7}{9}$ ◯ $\frac{7}{12}$

d) $\frac{3}{10}$ ◯ $\frac{3}{23}$

Write <, > or = to compare the fractions.

$\frac{7}{8}$ ◯ $\frac{3}{4}$

$\frac{6}{14}$ ◯ $\frac{3}{7}$

$\frac{9}{10}$ ◯ $\frac{9}{100}$

$\frac{1}{4}$ ◯ $\frac{1}{40}$

$\frac{5}{9}$ ◯ $\frac{9}{9}$

$\frac{1}{5}$ ◯ $\frac{5}{20}$

Esther and Scott have a bag of marbles.

a) Esther takes $\frac{3}{8}$ of the marbles.

Scott takes $\frac{3}{11}$ of the marbles.

Who has more marbles?

Monday13.1.25 *

MPI Compare fractions less than 1

Shade the bar models to represent the fractions.

a)

$\frac{1}{4}$

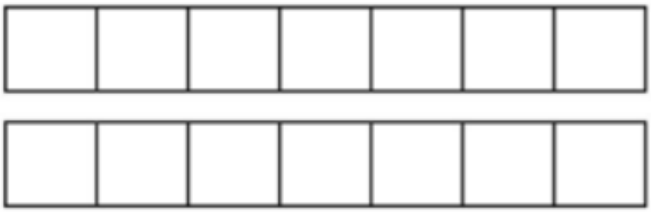
$\frac{3}{4}$

Which fraction is greater?

b)

$\frac{2}{7}$

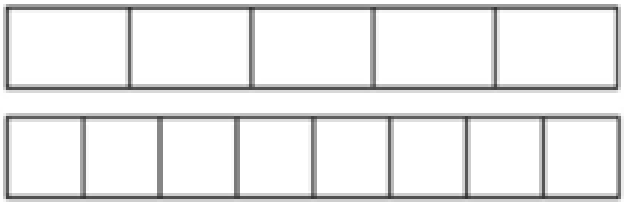
$\frac{5}{7}$



Which fraction is smaller?

$\frac{3}{5}$

$\frac{3}{8}$



Which fraction is smaller?

Write <, > or = to compare the fractions.

a) $\frac{7}{9}$ ◯ $\frac{4}{9}$

b) $\frac{5}{12}$ ◯ $\frac{7}{12}$

c) $\frac{7}{9}$ ◯ $\frac{7}{12}$

d) $\frac{3}{10}$ ◯ $\frac{3}{23}$

Tuesday 14.1.24

MPI Compare fractions less than 1 by finding equivalent fractions

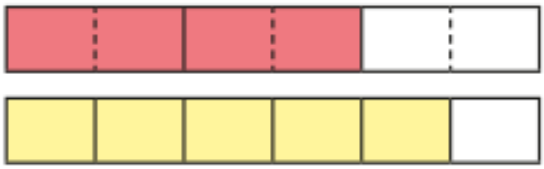
Complete the equivalent fractions.

$\frac{1}{2} = \frac{\square}{12}$ $\frac{3}{4} = \frac{\square}{12}$

Use your answers to help you write these fractions in order of size, starting with the smallest.

$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{12}$	$\frac{1}{12}$

The bar models show $\frac{2}{3}$ and $\frac{5}{6}$



Write <, > or = to compare the fractions.

a) $\frac{2}{3}$ ◯ $\frac{4}{6}$ b) $\frac{2}{3}$ ◯ $\frac{5}{6}$ c) $\frac{5}{6}$ ◯ $\frac{2}{3}$

Write <, > or = to compare the fractions.

a) $\frac{3}{4}$ ◯ $\frac{5}{8}$ c) $\frac{4}{5}$ ◯ $\frac{11}{15}$

b) $\frac{5}{12}$ ◯ $\frac{2}{6}$ d) $\frac{2}{3}$ ◯ $\frac{11}{12}$

Tuesday 14.1.25 *

MPI Converting and ordering fractions

Write >, < or = to compare the fractions.

$\frac{1}{6}$ ◯ $\frac{5}{18}$

$\frac{12}{25}$ ◯ $\frac{3}{5}$

$\frac{24}{36}$ ◯ $\frac{6}{9}$

Complete the equivalent fractions.

$\frac{1}{2} = \frac{\square}{12}$ $\frac{3}{4} = \frac{\square}{12}$

Use your answers to help you write these fractions in order of size, starting with the smallest.

$\frac{1}{2}$	$\frac{3}{4}$	$\frac{7}{12}$	$\frac{1}{12}$

Tuesday 14.1.24 CHALLENGE

MPI Compare fractions less than 1

Use the clues to find all the possible values of C.

- $\frac{A}{B} < \frac{C}{8}$
- B is 3 greater than A.
- A is the first prime number.
- Both fractions are less than 1

Tuesday 14.1.24 CHALLENGE

MPI Compare fractions less than 1

Use the clues to find all the possible values of C.

- $\frac{A}{B} < \frac{C}{8}$
- B is 3 greater than A.
- A is the first prime number.
- Both fractions are less than 1

Wednesday 15.1.25

MPI Converting and ordering fractions

Order the fractions using the > symbol.

$\frac{5}{11}$ $\frac{5}{12}$ $\frac{6}{11}$

Tiny is comparing $\frac{7}{10}$ and $\frac{3}{8}$

I know that $\frac{5}{10}$ is equivalent to $\frac{1}{2}$ and $\frac{4}{8}$ is equivalent to $\frac{1}{2}$

How can Tiny use these facts to compare $\frac{7}{10}$ and $\frac{3}{8}$?

Use Tiny's method to compare the fractions.

$\frac{17}{28}$ ◯ $\frac{11}{32}$

$\frac{999}{2000}$ ◯ $\frac{3007}{5000}$

Dexter is ordering $\frac{4}{5}$, $\frac{3}{10}$ and $\frac{10}{20}$, starting with the smallest fraction.

I can do this without finding a common numerator or denominator.

Explain why Dexter is correct.

Order each set of fractions, from greatest to smallest.

- $\frac{3}{7}, \frac{3}{5}, \frac{3}{8}$
- $\frac{2}{3}, \frac{5}{6}, \frac{7}{12}$
- $\frac{1}{4}, \frac{2}{5}, \frac{3}{20}$

Wednesday 15.1.25 Challenge

MPI Converting and ordering fractions

Find three possible ways to complete each statement.

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

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

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

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

Wednesday 15.1.25 Challenge

MPI Converting and ordering fractions

Find three possible ways to complete each statement.

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

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

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

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

Thursday 16.1.25

MPI *Converting and ordering fractions greater than 1*

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

Use 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) $\frac{9}{4}$ ◯ $\frac{18}{2}$

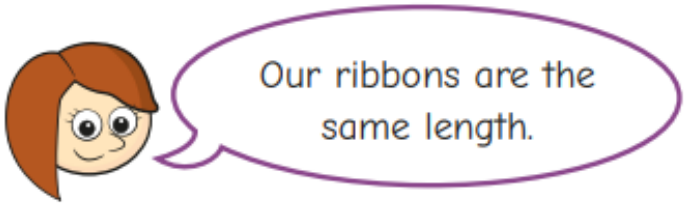
3 Filip has $3\frac{3}{16}$ bottles of juice.

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

Who has more juice?

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

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

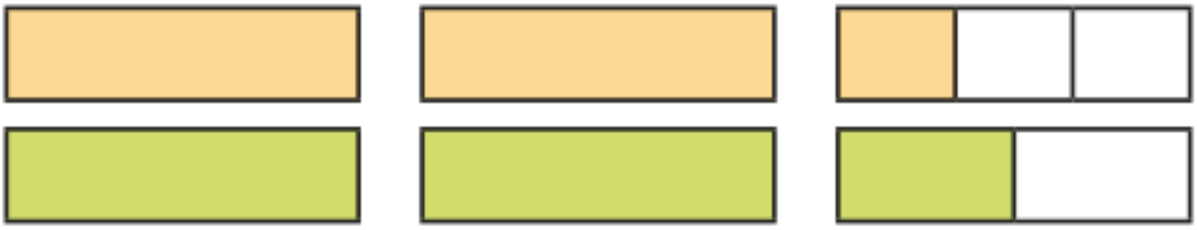


Explain why Rosie is incorrect.

Thursday 16.1.25 *

MPI Converting and ordering fractions greater than 1

Explain how the diagrams show that $2\frac{1}{3} < 2\frac{1}{2}$

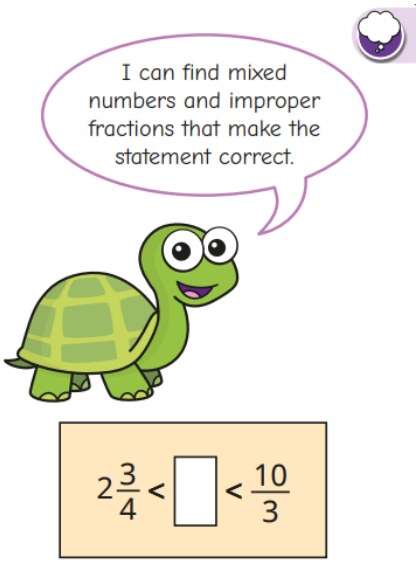


Put the numbers in order, starting with the smallest.

$3\frac{1}{3}$ $5\frac{1}{2}$ $2\frac{3}{4}$ $4\frac{1}{5}$ $1\frac{9}{10}$

Thursday 16.1.25 Challenge

MPI Converting and ordering fractions greater than 1



What mixed numbers and improper fractions can Tiny find?

Compare answers with a partner.

Thursday 16.1.25 Challenge

MPI Converting and ordering fractions greater than 1

I can find mixed numbers and improper fractions that make the statement correct.

$2\frac{3}{4} < \square < \frac{10}{3}$

What mixed numbers and improper fractions can Tiny find?

Compare answers with a partner.

Wednesday 28.2.24 CHALLENGE

MPI Compare fractions less than 1 by finding equivalent fractions

Kim and Dani take part in a race.

Kim completes $\frac{7}{10}$ of the race.

Dani completes $\frac{4}{5}$ of the race.

Who has run the furthest?

Wednesday 28.2.24 CHALLENGE

MPI Compare fractions less than 1 by finding equivalent fractions

Kim and Dani take part in a race.

Kim completes $\frac{7}{10}$ of the race.

Dani completes $\frac{4}{5}$ of the race.

Who has run the furthest?

Wednesday 15.1.25 sheet 2

MPI Compare fractions by comparing to 1/2

Sort these fractions into bigger/smaller than 1/2

7/12 5/15 3/8 4/9 9/16 8/15 2/3 2/5 42/80 51/103

Bigger than 1/2	Smaller than 1/2

Write < , > or = to compare the fractions.

6/15 14/22

____ is greater than one half, and ____ is less than half, so ____ is greater than ____

Write < , > or = to compare the fractions.

6/7 24/51

____ is greater than one half, and ____ is less than half, so ____ is greater than ____

*Wednesday 15.1.25.25**

MPI Compare fractions by comparing to 1/2

Sort these fractions into bigger/smaller than 1/2

7/12 5/15 3/8 4/9 9/16 8/15 2/3 2/5 42/80 51/103

Bigger than 1/2	Smaller than 1/2

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

6/156 14/24

Thursday 29.02.24 CHALLENGE

MPI Compare fractions less than 1 by finding equivalent fractions

Use the clues to find all the possible values of C.

- $\frac{A}{B} < \frac{C}{8}$
- B is 3 greater than A.
- A is the first prime number.
- Both fractions are less than 1

Thursday 29.02.24 CHALLENGE

MPI Compare fractions less than 1 by finding equivalent fractions

Use the clues to find all the possible values of C.

- $\frac{A}{B} < \frac{C}{8}$
- B is 3 greater than A.
- A is the first prime number.
- Both fractions are less than 1