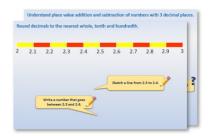
Year 5: Week 2, Day 3

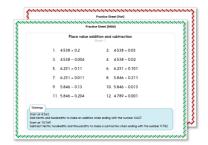
Use equivalence to compare and order fractions

Each day covers one maths topic. It should take you about 1 hour or just a little more.

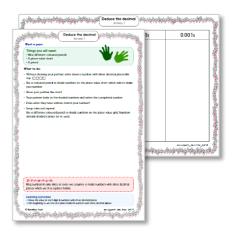
1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

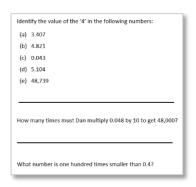


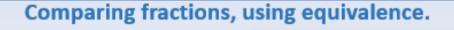
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



4. Have I mastered the topic? A few questions to Check your understanding.

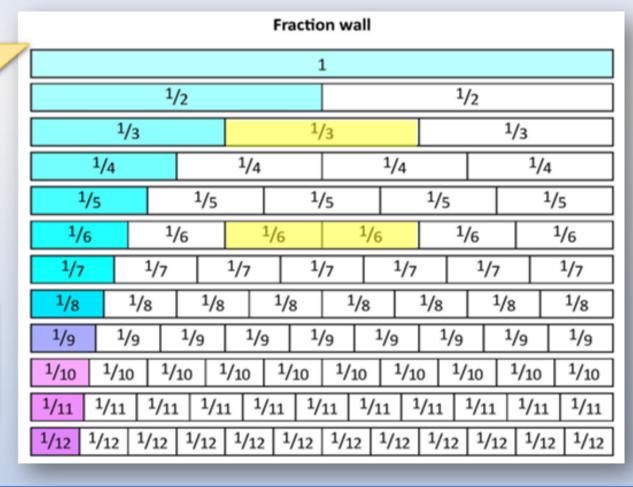
Fold the page to hide the answers!



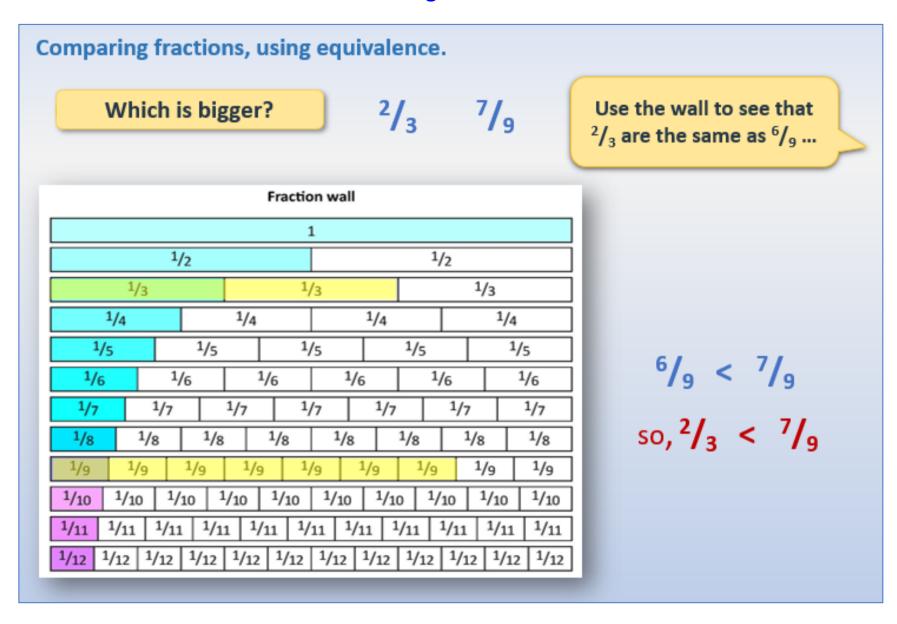


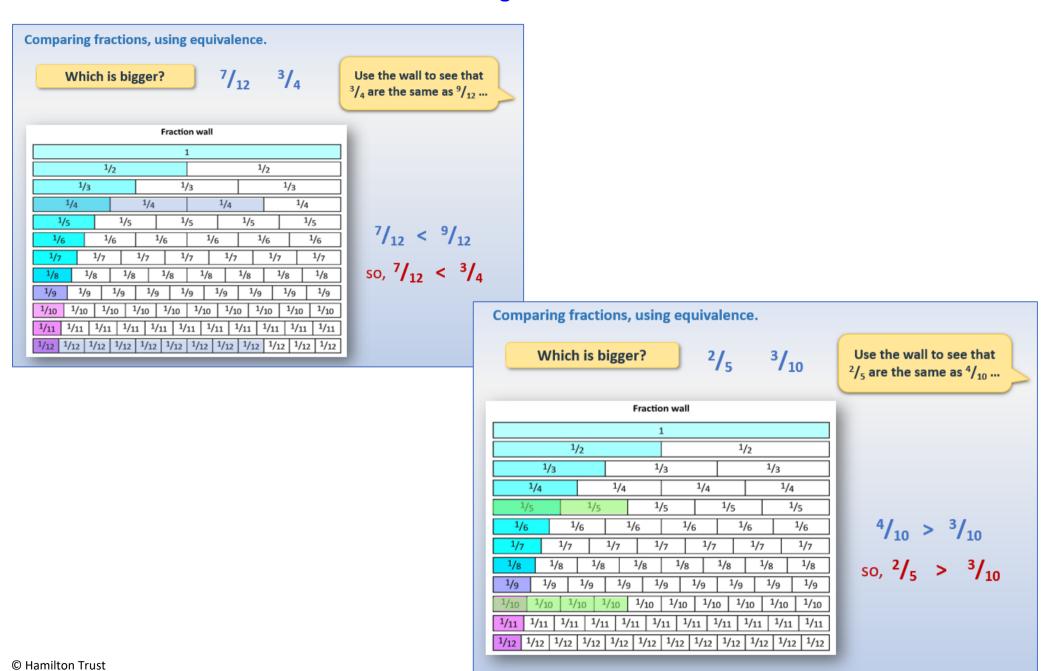
Write 3 sentences to say what the *Fraction*Wall is and how we can use it.

Now write as many fractions equivalent to $^1/_{3,}$ $^1/_4$ and $^1/_5$ as you can.
One is shaded to get you started...



Answers
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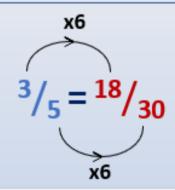


Comparing fractions, using equivalence.

What could we do to compare these three fractions?

Write them all as thirtieths.

The fraction wall can't help this time
as there are no thirtieths on it!



Remember: Do the same multiplication, or division, to the numerator *and* denominator to create an equivalent fraction...

$$^{21}/_{30} > ^{18}/_{30} > ^{16}/_{30}$$
 $^{7}/_{10} > ^{3}/_{5} > ^{8}/_{15}$

Practice Sheet Mild Equivalent fractions

 $\frac{2}{8}$

 $\frac{3}{6}$

<u>3</u>

 $\frac{3}{12}$

 $\frac{4}{12}$

 $\frac{5}{10}$

48

<u>6</u>8

 $\frac{2}{6}$

 $\frac{4}{6}$

 $\frac{8}{12}$

<u>9</u> 12 $\frac{1}{2}$

 $\frac{1}{3}$

 $\frac{2}{3}$

 $\frac{1}{4}$

4

 $\frac{3}{4}$

Challenge

Write some fractions which are equivalent to $\frac{1}{4}$ but not on the fraction wall.

Practice Sheet Mild Ordering fractions

Write these fractions as $\frac{1}{6}$ s. Then write them in order, starting with the smallest first.

$$\frac{2}{3}$$
 $\frac{1}{2}$ $\frac{1}{3}$

Write these fractions as $\frac{1}{10}$ s. Then write them in order, starting with the smallest first.

$$\frac{1}{2}$$
 $\frac{2}{5}$ $\frac{3}{5}$

Write these fractions as $\frac{1}{12}$ s. Then write them in order, starting with the smallest first.

$$\frac{2}{3}$$
 $\frac{3}{4}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{6}$ $\frac{5}{6}$ $\frac{1}{2}$

Practice Sheet Hot Equivalent fractions

Ring all the fractions that are equivalent to $\frac{1}{4}$

$$\frac{2}{8}$$
 $\frac{2}{7}$ $\frac{3}{12}$ $\frac{4}{20}$ $\frac{5}{20}$ $\frac{10}{30}$ $\frac{10}{40}$ $\frac{4}{16}$ $\frac{4}{100}$

Ring all the fractions that are equivalent to $\frac{1}{3}$

$$\frac{3}{12}$$
 $\frac{3}{6}$ $\frac{2}{6}$ $\frac{4}{12}$ $\frac{4}{9}$ $\frac{10}{30}$ $\frac{3}{9}$ $\frac{5}{15}$ $\frac{6}{15}$

Ring all the fractions that are equivalent to $\frac{1}{5}$

$$\frac{5}{15}$$
 $\frac{2}{10}$ $\frac{3}{15}$ $\frac{4}{20}$ $\frac{5}{20}$ $\frac{5}{100}$ $\frac{20}{100}$ $\frac{10}{50}$ $\frac{4}{25}$

Complete this list of fractions equivalent to $\frac{3}{4}$

Challenge 1

Ava says that she can write $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{5}$ and $\frac{2}{3}$ as an equivalent number of fiftieths. Do you agree with her?

Challenge 2

Write at least 5 fractions which are equivalent to $\frac{2}{5}$.

Practice Sheet Hot

Comparing and ordering fractions

Compare these pairs of fractions. Write them as the same 'sort' of fractions (with the same denominator), then write > or < in between.

1.
$$\frac{2}{3}$$
 $\frac{3}{6}$

2.
$$\frac{2}{3}$$
 $\frac{2}{9}$

$$\frac{3}{10}$$
 $\frac{1}{5}$

4.
$$\frac{3}{4}$$
 $\frac{7}{8}$

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

6.
$$\frac{7}{10}$$
 $\frac{3}{5}$

7.
$$\frac{1}{3}$$
 $\frac{5}{12}$

8.
$$\frac{2}{5}$$
 $\frac{7}{15}$

9.
$$\frac{7}{10}$$
 $\frac{13}{20}$

10.
$$\frac{1}{3}$$
 $\frac{4}{15}$

11.
$$\frac{1}{2}$$

12.
$$\frac{2}{3}$$
 $\frac{4}{5}$

Write these groups of fractions as the same 'sort' of fractions. Then write each group in order from least to greatest.

13.
$$\frac{1}{2}$$

$$\frac{3}{4}$$

14.
$$\frac{1}{2}$$

$$\frac{7}{10}$$

15.
$$\frac{1}{3}$$

$$\frac{4}{15}$$

16.
$$\frac{17}{20}$$

Challenge

Create a group of four fractions with different denominators that can be re-written as the same 'sort'. Order them using > or < symbols.