# Year 5: Week 2, Day 3 <br> 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.

2. 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!

## Learning Reminders

Comparing fractions, using equivalence.
Fraction wall
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...


## Learning Reminders

Comparing fractions, using equivalence.
Which is bigger?
$2 / 3 \quad 7 / 9$

Use the wall to see that $2 / 3$ are the same as $6 / 9 \ldots$

Fraction wall


$$
\begin{gathered}
6 / 9<7 / 9 \\
\text { so, } 2 / 3<7 / 9
\end{gathered}
$$

## Learning Reminders

Comparing fractions, using equivalence.
Which is bigger?
$7 / 12 \quad 3 / 4$
Use the wall to see that $3 / 4$ are the same as $9 / 12$...


| $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ | $1 / 10$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ | $1 / 11$ |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 1 | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ |  | $1 / 12$ |  | $1 / 12$ | | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ | $1 / 12$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

$$
7 / 12<9 / 12
$$

so, $7 / 12<3 / 4$

Comparing fractions, using equivalence.


## Learning Reminders

## Comparing fractions, using equivalence.

$$
3 / 5 \quad 7 / 10 \quad 8 / 15
$$

What could we do to compare these three fractions?


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

## Practice Sheet Mild Equivalent fractions

Use the fraction wall to help you join each fraction on the left to the equivalent fraction in its simplest form.
$\frac{2}{8}$
$\frac{3}{6}$
$\frac{3}{9}$
3
$\frac{3}{12}$
$\frac{1}{2}$

4
12
5
$\frac{5}{10}$
$\frac{2}{3}$
$\frac{4}{8}$
$\frac{6}{8}$
$\frac{2}{6}$
$\frac{1}{4}$
$\frac{4}{6}$
$\frac{8}{12}$
$\frac{3}{4}$
$\frac{9}{12}$

## Challenge

Write some fractions which are equivalent to $\frac{1}{4}$ but not on the fraction wall.
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## Practice Sheet Mild <br> Ordering fractions

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

$$
\begin{array}{lll}
\frac{2}{3} & \frac{1}{2} & \frac{1}{3}
\end{array}
$$

Write these fractions as $\frac{1}{10}$ s. Then write them in order, starting with the smallest first. $\frac{1}{2} \quad \frac{2}{5} \quad \frac{3}{5}$

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

```
\frac{2}{3}
```

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## Practice Sheet Hot <br> Equivalent fractions

Ring all the fractions that are equivalent to $\frac{1}{4}$
$\begin{array}{lllllllll}\frac{2}{8} & \frac{2}{7} & \frac{3}{12} & \frac{4}{20} & \frac{5}{20} & \frac{10}{30} & \frac{10}{40} & \frac{4}{16} & \frac{4}{100}\end{array}$

Ring all the fractions that are equivalent to $\frac{1}{3}$
$\frac{3}{12}$
$\frac{3}{6}$
$\frac{2}{6} \quad \frac{4}{12}$
$\frac{4}{9}$
$\frac{10}{30}$
$\begin{array}{ll}\mathbf{3} & \frac{5}{15}\end{array}$
$\frac{6}{15}$

Ring all the fractions that are equivalent to $\frac{1}{5}$
$\begin{array}{lllllllll}\frac{5}{15} & \frac{2}{10} & \frac{3}{15} & \frac{4}{20} & \frac{5}{20} & \frac{5}{100} & \frac{20}{100} & \frac{10}{50} & \frac{4}{25}\end{array}$

Complete this list of fractions equivalent to $\frac{3}{4}$
$\frac{3}{4} \quad \frac{\square}{8}$

$\frac{\square}{20}$

$\frac{\square}{100} \quad \frac{21}{\square}$


## 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 <br> 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. $\frac{2}{3} \frac{2}{9}$
3. $\frac{3}{10} \quad \frac{1}{5}$
4. $\frac{3}{4} \quad \frac{7}{8}$
5. $\frac{5}{6} \quad \frac{11}{12}$
6. $\frac{7}{10} \quad \frac{3}{5}$
7. $\frac{1}{3} \quad \frac{5}{12}$
8. $\frac{2}{5} \frac{7}{15}$
9. $\frac{7}{10} \quad \frac{13}{20}$
10. $\frac{1}{3} \frac{4}{15}$
11. $\frac{1}{2} \frac{2}{5}$
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. $\frac{1}{2}$
$\frac{3}{4}$
$\frac{5}{8}$
14. $\frac{1}{2}$
$\begin{array}{ll}\frac{3}{5} & \frac{7}{10} \\ \frac{4}{5} & \frac{7}{10}\end{array}$
15. $\frac{1}{3}$
$\frac{4}{15}$
$\frac{2}{5}$
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.
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