1) a) $\frac{7}{4}$ > $\frac{10}{8}$

   b) $\frac{8}{6}$ < $\frac{5}{3}$

2) a) $1\frac{3}{4}$ > $1\frac{1}{2}$

   b) $1\frac{1}{4}$ < $1\frac{3}{8}$

3) a)

	$\frac{6}{3}$	$\frac{7}{6}$	$\frac{8}{12}$
Find the equivalent fractions:	$\frac{24}{12}$	$\frac{14}{12}$	$\frac{8}{12}$
Order the fractions:	$\frac{8}{12}$	$\frac{7}{6}$	$\frac{6}{3}$

   b)

	$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{19}{16}$
Find the equivalent fractions:	$\frac{28}{16}$	$\frac{18}{16}$	$\frac{19}{16}$
Order the fractions:	$1\frac{1}{8}$	$\frac{19}{16}$	$1\frac{3}{4}$

1) a) Lucas has drawn the bar models which show $\frac{3}{4}$ and $\frac{5}{8}$ different sizes – the whole bar needs to be the same size. Also, he has only drawn one square to represent one whole.

b) Children may suggest that Lucas needs to improve his understanding of what a whole is and how it is used in a mixed number.

2) a) $\frac{1}{4}$ $\left(\frac{10}{4} \quad \frac{10}{8}\right)$ $\left(3\frac{3}{4} \quad 3\right)$

b) $\frac{1}{4}$ $\frac{10}{8}$ $\frac{10}{4}$ 3 $3\frac{3}{4}$

3) Kwamena is correct.

Riley is wrong. Although one whole is larger than a fraction of a whole, an improper fraction is larger than one whole.

Sally is wrong. Although 8 is the larger numerator, we need to look at the denominators as well as the whole in the mixed number to tell which is the larger number or fraction.

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1) a) $\dfrac{\boxed{13}}{12} \;<\; \dfrac{7}{6}$ b) $1\frac{3}{4} \;<\; \dfrac{16}{8}$ c) $\dfrac{26}{16} \;=\; 1\dfrac{5}{\boxed{8}}$
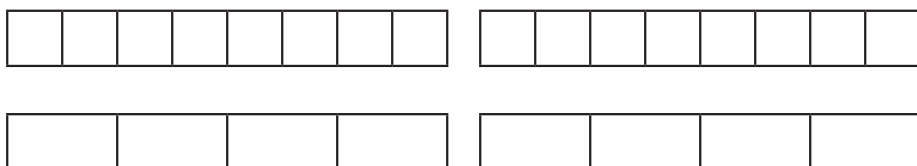
2) Will

Lucy

Will ate the most cake overall.

3) Accept any problems that compare fractions greater than 1.
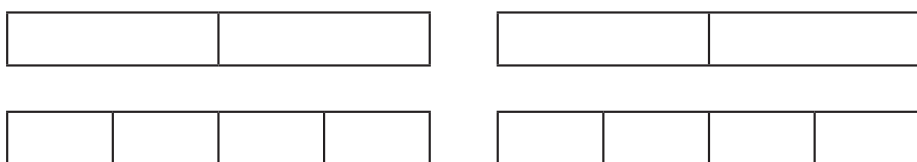
1) **a)** Use these bar models to compare $\frac{10}{8}$ and $\frac{7}{4}$.

$$\boxed{} > \boxed{}$$

b) Draw two bar models to compare $\frac{5}{3}$ and $\frac{8}{6}$.

$$\boxed{} < \boxed{}$$
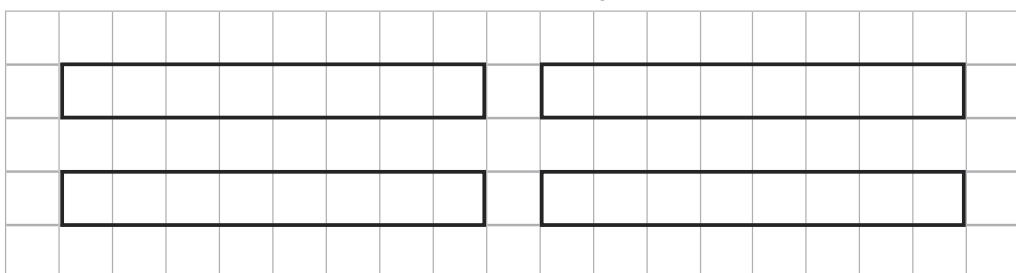
2) **a)** Colour these bar models to compare $1\frac{1}{2}$ and $1\frac{3}{4}$.

$$\boxed{} > \boxed{}$$

b) Draw two bar models to compare $1\frac{1}{4}$ and $1\frac{3}{8}$.

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

3) Use your knowledge of common denominators to order these fractions from smallest to greatest.

a)

	$\frac{6}{3}$	$\frac{7}{6}$	$\frac{8}{12}$
Find the equivalent fractions:	$\frac{\boxed{}}{12}$	$\frac{\boxed{}}{12}$	$\frac{\boxed{}}{12}$
Order the fractions:			

b)

	$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{19}{16}$
Find the equivalent fractions:	$\frac{\boxed{}}{\boxed{}}$	$\frac{\boxed{}}{\boxed{}}$	$\frac{\boxed{}}{\boxed{}}$
Order the fractions:			

1) Lucas has drawn two bar models to compare $1\frac{3}{4}$ and $1\frac{5}{8}$.

$1\frac{3}{4}$

$1\frac{5}{8}$

a) Explain the mistakes that Lucas has made.

_____

_____

_____

b) What advice would you give Lucas to improve his understanding of fractions?

_____

_____

2) Phoebe has ordered these improper fractions and mixed numbers from smallest to greatest.

a) Circle her mistakes.

$\frac{1}{4}$ $\frac{10}{4}$ $\frac{10}{8}$ $3\frac{3}{4}$ 3

b) Write them in the correct order.

3)

$1\frac{4}{5}$ > $\frac{8}{5}$

This is correct because one whole is larger than a fraction.

Riley

This is wrong because one whole and four fifths is equal to nine fifths.

Kwamena

This is wrong because 8 is the larger numerator.

Sally

Who is right and who is wrong? Explain the mistakes that some of the children have made.

_____

_____

_____

_____

_____

1) Fill in the missing numbers.

a) $\dfrac{\boxed{}}{12} < \dfrac{7}{6}$ (Your fraction should be greater than 1.)

b) $\boxed{}\dfrac{3}{4} < \dfrac{16}{8}$

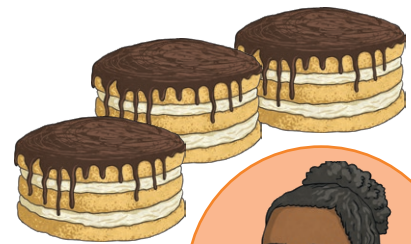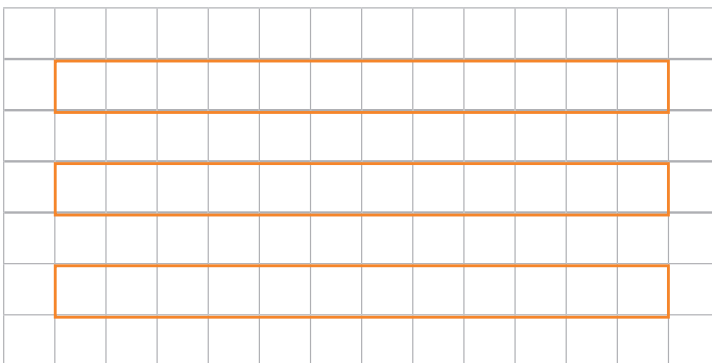**c)** $\dfrac{26}{16} = 1\dfrac{5}{\boxed{}}$

Your fraction shou...

2) W... c...

I cut each of my cakes into 4 equal pieces. I have eaten 11 pieces of cake overall.

Will

I cut each of my cakes into 6 equal pieces. I have eaten 15 pieces of cake overall.

Lucy

Who ate the most cake overall? Complete the bar models to solve the problem. _____

3) Write a problem that involves comparing fractions that are greater than 1. Can your partner solve it?

_____

Diving into Mastery

Compare and Order Fractions Greater Than 1

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:
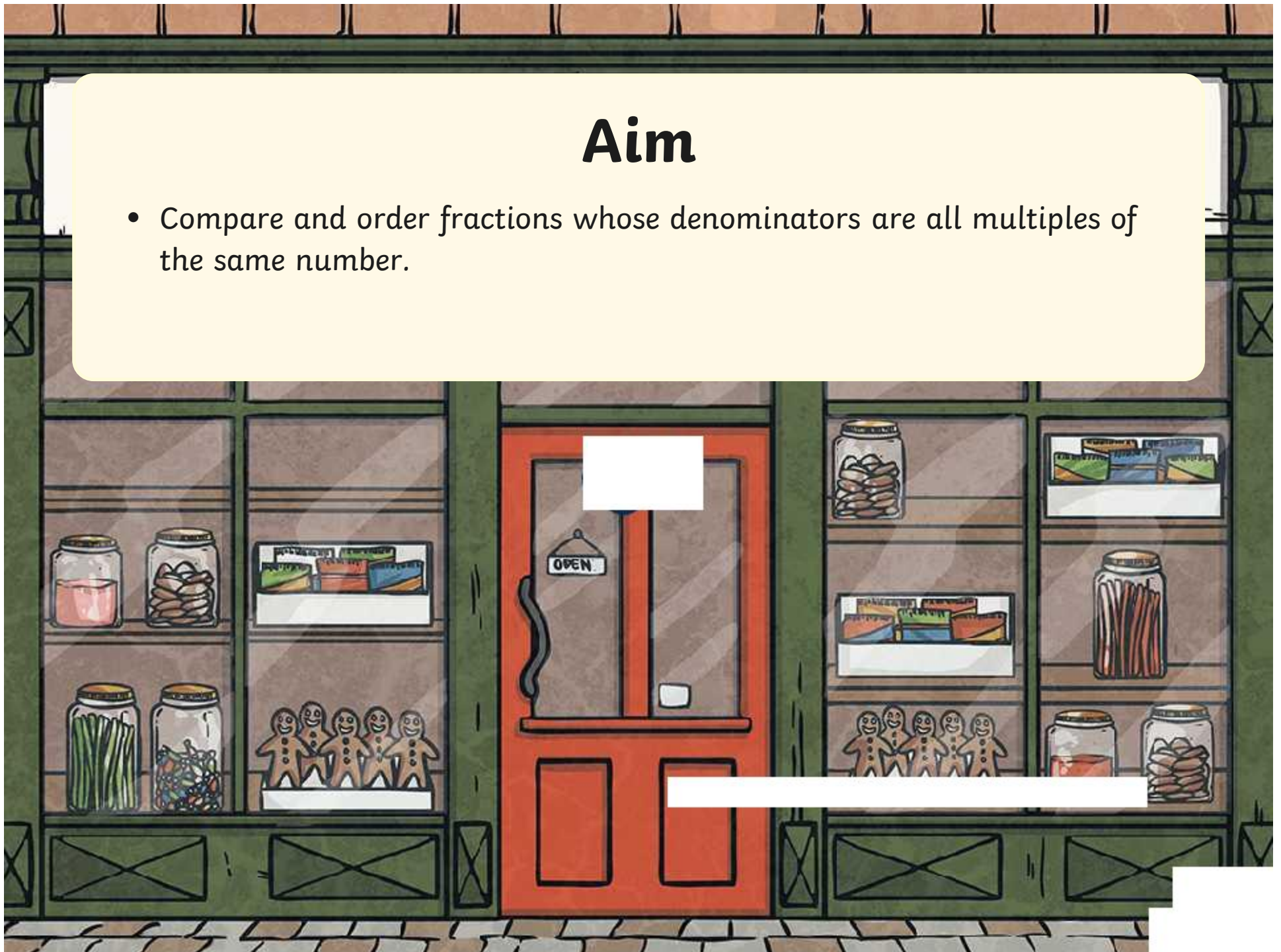
Diving

Deeper

Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

- Compare and order fractions whose denominators are all multiples of the same number.
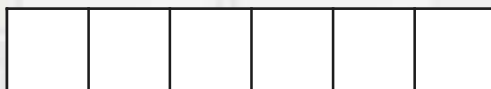
Use these bar models to compare $\frac{11}{6}$ and $\frac{5}{3}$.

$$\frac{5}{3} < \frac{11}{6}$$

Draw bar models to compare $\frac{6}{4}$ and $\frac{14}{8}$.

$$\frac{14}{8} > \frac{6}{4}$$

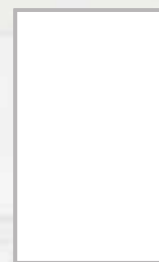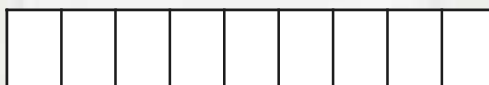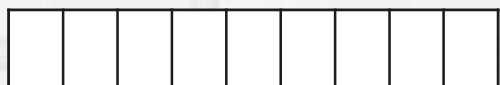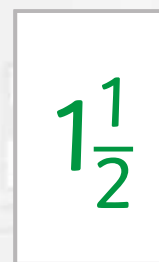Use these bar models to compare $1\frac{2}{3}$ and $1\frac{5}{9}$.

> $>$

Draw bar models to compare $1\frac{5}{8}$ and $1\frac{1}{2}$.

$1\frac{1}{2}$ $<$ $1\frac{5}{8}$

Use your knowledge of common denominators to order these fractions from smallest to greatest.

$\dfrac{7}{4}$　　$\dfrac{10}{16}$　　$\dfrac{13}{8}$

× 4

$\dfrac{\square}{16}$　　$\dfrac{\square}{16}$　　$\dfrac{\square}{16}$

× 2

$\dfrac{10}{16}$　　$\dfrac{13}{8}$　　$\dfrac{7}{4}$

Archie has drawn two bar models to compare $1\frac{1}{3}$ and $1\frac{5}{6}$
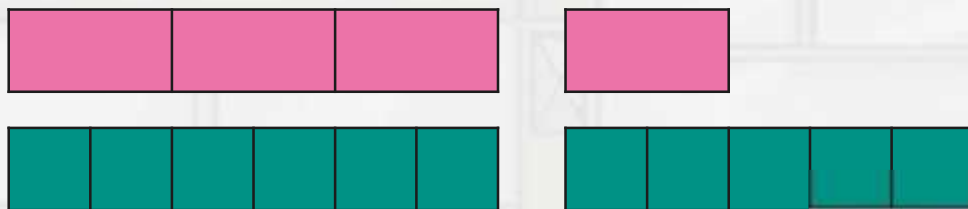
What has Archie done wrong?

In the parts of the bar model that represent the fractions, he has not drawn the rest of the whole.

What advice would you give Archie to improve his understanding of fractions?

Hailey has ordered these improper fractions and mixed numbers from smallest to greatest.

$$\frac{7}{5} \qquad 1\frac{3}{10} \qquad \frac{19}{10}$$

Spot her mistake and then write the numbers in the correct order.

$\frac{7}{5}$ is equivalent to $\frac{14}{10}$ and $1\frac{3}{10}$ is equivalent to $\frac{13}{10}$.

$$1\frac{3}{10} \qquad \frac{7}{5} \qquad \frac{19}{10}$$

Fill in the missing numbers.

$$1\frac{1}{5} < \frac{13}{10}$$

$$\frac{21}{12} < 2\frac{3}{4} \quad \text{or} \quad 1\frac{3}{4}$$

Usman and Saira have 2 pies each.

Usman: I cut each of my pies into 3 equal pieces. I have eaten 4 pieces of pie overall.

Saira: I cut each of my pies into 6 equal pieces. I have eaten 11 pieces of pie overall

Usman

Saira

Who ate the most pie overall? Complete the bar models to solve the problem.
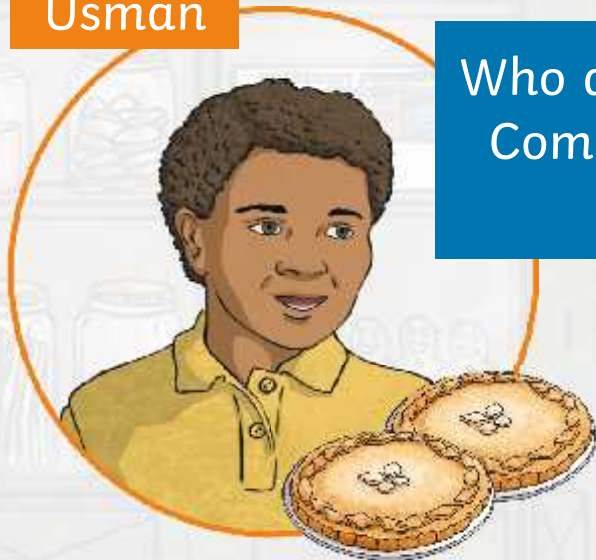
Usman and Saira have two pies each.

I cut each of my pies into 3 equal pieces. I have eaten 4 pieces of pie overall.

Saira ate the most pie overall.

Usman

I cut each of my pies into 6 equal pieces. I have eaten 11 pieces of pie overall.
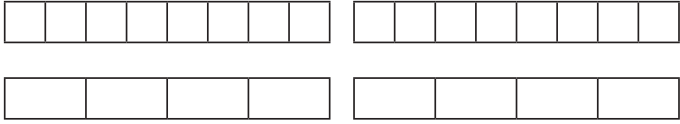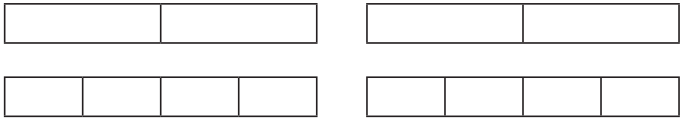
Saira

Compare and Order Fractions Greater Than 1

Dive in by completing your own activity!

1) a) Use these bar models to compare $\frac{10}{8}$ and $\frac{7}{4}$.

b) Draw two bar models to compare $\frac{5}{3}$ and $\frac{8}{6}$.

2) a) Copy and colour these bar models to compare $1\frac{1}{2}$ and $1\frac{3}{4}$.

b) Draw two bar models to compare $1\frac{1}{4}$ and $1\frac{3}{8}$.

3) Use your knowledge of common denominators to order these fractions from smallest to greatest.

a)

	$\frac{6}{3}$	$\frac{7}{6}$	$\frac{8}{12}$
Find the equivalent fractions:	$\frac{\square}{12}$	$\frac{\square}{12}$	$\frac{\square}{12}$
Order the fractions:			

b)

	$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{19}{16}$
Find the equivalent fractions:	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
Order the fractions:			

---

1) a) Use these bar models to compare $\frac{10}{8}$ and $\frac{7}{4}$.

b) Draw two bar models to compare $\frac{5}{3}$ and $\frac{8}{6}$.

2) a) Copy and colour these bar models to compare $1\frac{1}{2}$ and $1\frac{3}{4}$.

b) Draw two bar models to compare $1\frac{1}{4}$ and $1\frac{3}{8}$.

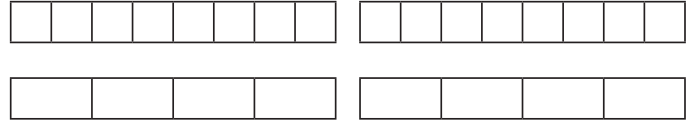**3)** Use your knowledge of common denominators to order these fractions from smallest to greatest.

a)

	$\frac{6}{3}$	$\frac{7}{6}$	$\frac{8}{12}$
Find the equivalent fractions:	$\frac{\square}{12}$	$\frac{\square}{12}$	$\frac{\square}{12}$
Order the fractions:			

b)

	$1\frac{3}{4}$	$1\frac{1}{8}$	$\frac{19}{16}$
Find the equivalent fractions:	$\frac{\square}{\square}$	$\frac{\square}{\square}$	$\frac{\square}{\square}$
Order the fractions:			

1) Lucas has drawn two bar models to compare $1\frac{3}{4}$ and $1\frac{5}{8}$.

$1\frac{3}{4}$

$1\frac{5}{8}$

   a) Explain the mistakes that Lucas has made.

   b) What advice would you give Lucas to improve his understanding of fractions?

2) Phoebe has ordered these improper fractions and mixed numbers from smallest to greatest.

   a) Circle her mistakes.

$\frac{1}{4}$ $\frac{10}{4}$ $\frac{10}{8}$ $3\frac{3}{4}$ 3

   b) Write them in the correct order.

3) $\boxed{1\frac{4}{5} > \frac{8}{5}}$

Riley: This is correct because one whole is larger than a fraction.

Sally: This is wrong because 8 is the larger numerator.

Kwamena: This is wrong because one whole and four fifths is equal to nine fifths.

Who is right and who is wrong? Explain the mistakes that some of the children have made.

1) Copy and Fill in the missing numbers.

a) $\dfrac{\boxed{}}{12} < \dfrac{7}{6}$

(Your fraction should be greater than 1.)

b) $\boxed{}\dfrac{3}{4} < \dfrac{16}{8}$

c) $\dfrac{26}{16} = 1\dfrac{5}{\boxed{}}$

2) Will and Lucy have 3 cakes each.

I cut each of my cakes into 4 equal pieces. I have eaten 11 pieces of cake overall.

Will

I cut each of my cakes into 6 equal pieces. I have eaten 15 pieces of cake overall.

Lucy

Who ate the most cake overall? Copy and complete the bar models to solve the problem.

3) Write a problem that involves comparing fractions that are greater than 1. Can your partner solve it?

---

1) Copy and Fill in the missing numbers.

a) $\dfrac{\boxed{}}{12} < \dfrac{7}{6}$

b) $\boxed{}\dfrac{3}{4} < \dfrac{16}{8}$

c) $\dfrac{26}{16} = 1\dfrac{5}{\boxed{}}$

Your fraction should be greater than 1.

2) Will and Lucy have 3 cakes each.

I cut each of my cakes into 4 equal pieces. I have eaten 11 pieces of cake overall.

Will

I cut each of my cakes into 6 equal pieces. I have eaten 15 pieces of cake overall.

Lucy

Who ate the most cake overall? Copy and Complete the bar models to solve the problem.

3) Write a problem that involves comparing fractions that are greater than 1. Can your partner solve it?