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Simplifying Fractions Fractions on a Number Line

Fluency

- 1 Show the fraction in its simplest form by filling in the blanks.

\div <input type="text"/>	\div <input type="text"/>	\div <input type="text"/>
$\frac{8}{12} = \frac{\quad}{\quad}$	$\frac{6}{18} = \frac{\quad}{\quad}$	$\frac{12}{48} = \frac{\quad}{\quad}$
\div <input type="text"/>	\div <input type="text"/>	\div <input type="text"/>

- 2 Fill in the blanks.

$$\frac{6}{7} = \frac{18}{\quad}$$

$$\frac{9}{16} = \frac{\quad}{48}$$

$$\frac{8}{64} = \frac{\quad}{8}$$

- 3 Simplify using bar models to show your working.

 $\frac{3}{9} = \frac{\quad}{\quad}$
 $\frac{4}{10} = \frac{\quad}{\quad}$
 $\frac{4}{12} = \frac{\quad}{\quad}$

Work out the blanks in these sequences.

4 $\frac{4}{6}$ $\frac{5}{6}$ 1 $\frac{7}{6}$

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

$\frac{1}{9}$ $\frac{3}{9}$ $\frac{7}{9}$

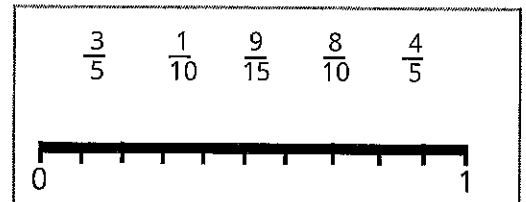
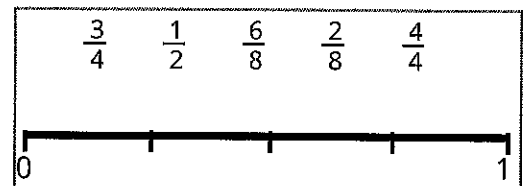
Problem Solving and Reasoning

- 1 Circle the fraction not in its simplest form and write its simplest form in the box.

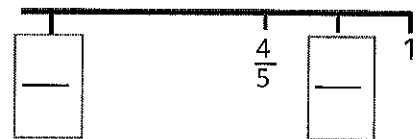
$\frac{1}{4}$ $\frac{2}{7}$ $\frac{1}{9}$ $\frac{5}{9}$ $\frac{6}{21}$

$\frac{16}{17}$ $\frac{5}{12}$ $\frac{3}{7}$ $\frac{23}{50}$ $\frac{35}{42}$

- 2 On the number line draw a line to each fraction's place:



- 3 Estimate the value of the missing proper fractions.



- 4 Use the three number cards to fill in the blanks.

$\frac{\quad}{\quad} > \frac{\quad}{\quad}$

Number cards: 8, 6, 12, 7

- 5 Use the blank bar model below to prove that the following two fractions are equivalent:

$\frac{3}{4}$ $\frac{6}{8}$

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Compare and order fractions >1

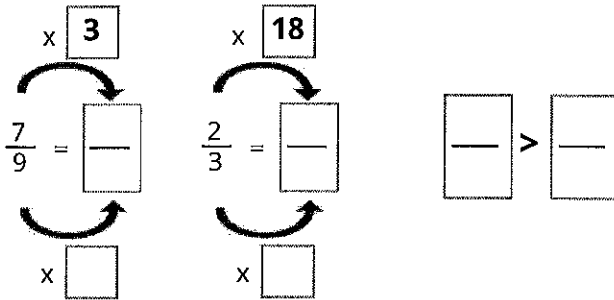
Fluency

- 1 Shade in the following fractions in a way that will show which is the biggest fraction.



$\square > \square$

- 2 Work out the equivalent in order to



- 3 Circle the biggest fraction.

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

$\frac{2}{6}$ $\frac{4}{11}$ $\frac{3}{8}$

$1\frac{7}{8}$ $1\frac{14}{32}$ $\frac{99}{105}$

- 4 Put the fractions in order from smallest to largest.

$\frac{2}{9}$ $\frac{4}{6}$ $\frac{11}{15}$ $\frac{3}{8}$ $\frac{1}{3}$

$\frac{3}{9}$ $\frac{5}{14}$ $\frac{3}{15}$ $\frac{1}{12}$ $\frac{1}{16}$

- 5 State if each of the following are True or False

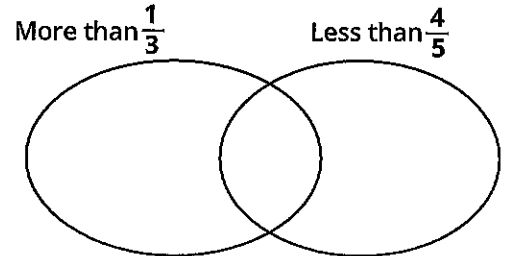
$\frac{2}{12} > \frac{4}{20}$ _____ $\frac{5}{7} < \frac{6}{9}$ _____

$\frac{24}{41} > \frac{11}{20}$ _____ $\frac{13}{33} < \frac{42}{80}$ _____

Problem Solving and Reasoning

- 1 Put the fractions in the correct place in the Venn diagram.

$\frac{2}{9}$ $\frac{4}{6}$ $\frac{1}{12}$ $\frac{3}{5}$ $\frac{6}{12}$ $\frac{5}{7}$

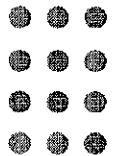


- 2 Is the strategy of finding the common denominator the best way of comparing these two fractions? Explain your answer.

$\frac{4}{11}$ $\frac{8}{19}$

- 3 Can you show on the diagram that

$\frac{3}{4}$ is greater than $\frac{2}{3}$



- 4 What fraction could go in the blank box?

$\frac{5}{7}$ $\frac{\square}{\square}$ $\frac{7}{13}$
 Biggest Smallest

- 5 A group of friends were out for ice-cream. Sarah ate all of hers; Jo ate half of what Sarah ate. Abbe ate a quarter of what Jo had and Fiona had half of what Abbe had. What fraction of their ice-cream did each have? Show and label on the bar models below.

SARAH	<input type="text"/>
JO	<input type="text"/>
ABBE	<input type="text"/>
FIONA	<input type="text"/>