Homework/Extension
Step 3: Compare and Order Denominators

Teaching note: In this resource, where images are used, the shaded portion of the image represents the fraction shown.

National Curriculum Objectives:

Mathematics Year 6: (6F2) Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
Mathematics Year 6: (6F3) Compare and order fractions, including fractions > 1

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Circle the fractions that are less than the given fraction, where denominators are direct multiples of the same number.
Expected Circle the fractions that are less than the given fraction, where denominators are not always direct multiples of the same number.
Greater Depth Circle the fractions that are less than the given fraction, where denominators are not always direct multiples of the same number. Fractions will not require simplifying.

Questions 2, 5 and 8 (Varied Fluency)
Developing Complete the sequence using the given fractions, where denominators are direct multiples of the same number.
Expected Complete the sequence using the given fractions, where denominators are not always direct multiples of the same number.
Greater Depth Complete the sequence using the given fractions, where denominators are not direct multiples of the same number. Fractions require simplifying.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Find the possible missing fraction from the given clues and explain the answer, where denominators are direct multiples of the same number.
Expected Find the missing fraction from the given clues and explain the answer, where denominators are not always direct multiples of the same number. Fractions require simplifying.
Greater Depth Find the missing fraction from the given clues and explain the answer, where denominators are not direct multiples of the same number. Fractions require simplifying.

More Year 6 Fractions resources.

Did you like this resource? Don't forget to review it on our website.

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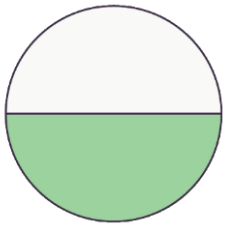
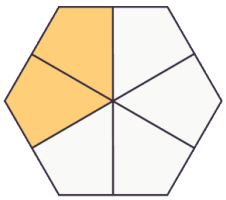
Compare and Order Denominators

1. Circle the fractions that are more than $\frac{1}{2}$.

A.

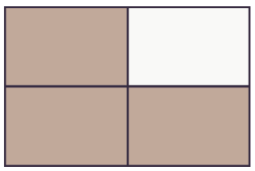


C.



B.

D.



D

VF
HW/Ext

2. Complete the sequence using the fractions below.

$\frac{2}{10}$, $\square$, $\frac{6}{10}$, $\square$, $\frac{4}{5}$, $\square$

$\frac{7}{10}$ $\frac{2}{5}$ $\frac{9}{10}$

D

VF
HW/Ext

3. Sinead has three fractions.

She says,

My third fraction has a denominator of 12 and is greater than both of my other fractions.

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

What could her third fraction be? Explain your answer.

D

RPS
HW/Ext

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Compare and Order Denominators

4. Circle the fractions that are less than $\frac{3}{4}$.

A. $\frac{5}{10}$

C. 

B. 

D. $\frac{10}{12}$

VF
HW/Ext

5. Complete the sequence using the fractions below.

$\frac{2}{6}$, $\frac{1}{2}$, ☐ , ☐ , $\frac{9}{12}$, ☐

$\frac{5}{6}$ $\frac{2}{3}$ $\frac{6}{10}$

VF
HW/Ext

6. Ryan has three fractions.

He says,

My third fraction has a denominator of 4 and is greater than both of my other fractions.

$\frac{6}{10}$ $\frac{4}{8}$

What is his third fraction? Explain your answer.

RPS
HW/Ext

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Compare and Order Denominators

7. Circle the fractions that are less than $\frac{5}{6}$.

A. $\frac{4}{9}$

C. $\frac{10}{13}$

B. $\frac{11}{14}$

D. $\frac{15}{17}$

GD

VF
HW/Ext

8. Complete the sequence using the fractions below.

$\square$, $\frac{2}{6}$, $\frac{9}{21}$, $\square$, $\frac{10}{14}$, $\square$

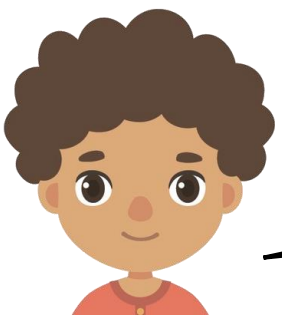
$\frac{2}{3}$ $\frac{6}{7}$ $\frac{1}{4}$

GD

VF
HW/Ext

9. Justin has three fractions.

He says,



My third fraction is in between my other fractions. My numerator is an odd number.

$\frac{24}{72}$ $\frac{7}{49}$

What is his third fraction? Explain your answer.

GD

RPS
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Developing

1. B and D

2. $\frac{2}{5}$; $\frac{7}{10}$; $\frac{9}{10}$

3. Various answers, for example: $\frac{9}{12}$; $\frac{10}{12}$; $\frac{11}{12}$

This is because the lowest common denominator is 12. This would mean $\frac{3}{4}$ is equivalent to $\frac{30}{40}$ and $\frac{6}{10}$ is equivalent to $\frac{4}{8}$.

Expected

4. A and C

5. $\frac{6}{10}$; $\frac{2}{3}$; $\frac{5}{6}$

6. Ryan's third fraction is $\frac{3}{4}$. This is because if all the fractions are multiplied, the lowest common denominator would be 40. This would mean $\frac{6}{10}$ is equivalent to $\frac{24}{40}$, $\frac{4}{8}$ is equivalent to $\frac{20}{40}$ and $\frac{3}{4}$ is equivalent to $\frac{30}{40}$.

Greater Depth

7. A, B and C

8. $\frac{1}{4}$; $\frac{2}{3}$; $\frac{6}{7}$

9. Justin's third fraction is $\frac{5}{21}$.

This is because when the fractions are simplified they equal $\frac{1}{3}$ and $\frac{1}{7}$. The lowest common denominator for these fractions is 21. Therefore, $\frac{1}{3}$ is equivalent to $\frac{7}{21}$ and $\frac{1}{7}$ is equivalent to $\frac{3}{21}$. The only odd numerator between these fractions is 5.

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