

Homework/Extension

Step 2: Improper Fractions to Mixed Numbers

National Curriculum Objectives:

Mathematics Year 5: (5F2a) [Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements \$> 1\$ as a mixed number \[for example, \$2/5 + 4/5 = 6/5 = 1 \frac{1}{5}\$ \]](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the improper fraction to its visual representation and then its mixed number. Includes thirds. Includes pictorial representation.

Expected Match the improper fraction to its visual representation and then its mixed number. Includes pictorial representation.

Greater Depth Create a visual representation for the improper fractions and match them to their mixed number. Includes incomplete pictorial representation.

Questions 2, 5 and 8 (Varied Fluency)

Developing Convert the improper fractions to mixed numbers and sort them into the Carroll diagram. Includes halves, quarters, fifths and tenths. Includes pictorial representation.

Expected Convert the improper fractions to mixed numbers and sort them into the Carroll diagram. Includes fractions up to twelfths and pictorial representation.

Greater Depth Convert the improper fractions to mixed numbers and sort them into the Carroll diagram. Includes incomplete pictorial representation.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Identify the odd one out. Includes fifths. Includes pictorial representation.

Expected Identify the odd one out. Includes fractions up to twelfths and pictorial representation.

Greater Depth Complete the improper fractions and mixed numbers to create an odd one out. Includes incomplete pictorial representation.

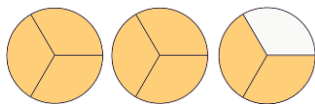
More [Year 5 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Improper Fractions to Mixed Numbers

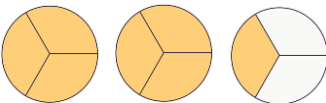
1. Match the improper fraction to its visual representation and then its mixed number.

$$\frac{7}{3}$$



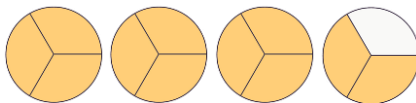
$$1 \frac{2}{3}$$

$$\frac{5}{3}$$



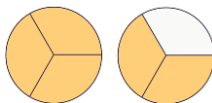
$$2 \frac{1}{3}$$

$$\frac{8}{3}$$



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

$$\frac{11}{3}$$

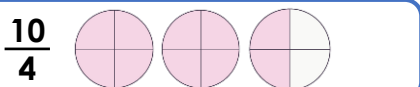
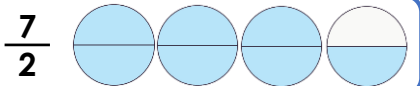
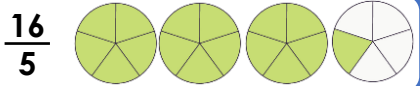


$$2 \frac{2}{3}$$



VF
HW/Ext

2. Convert the improper fractions to mixed numbers and sort them into the Carroll diagram.



	Numerator is even	Numerator is odd
Whole number = 3		
Whole number = or < 2		



VF
HW/Ext

3. Identify the odd one out. Explain your answer.

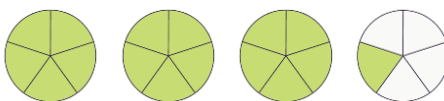
A.

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

B.

$$\frac{16}{5}$$

C.

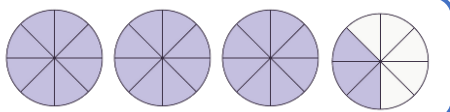


RPS
HW/Ext

Improper Fractions to Mixed Numbers

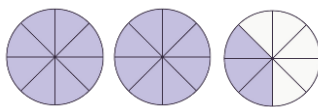
4. Match the improper fraction to its visual representation and then its mixed number.

$$\frac{27}{8}$$



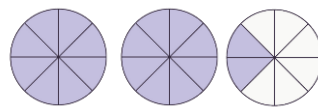
$$2 \frac{3}{8}$$

$$\frac{18}{8}$$



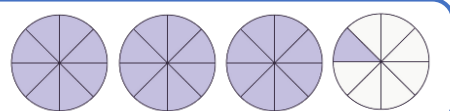
$$3 \frac{1}{8}$$

$$\frac{25}{8}$$



$$3 \frac{3}{8}$$

$$\frac{19}{8}$$

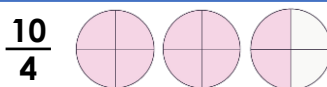
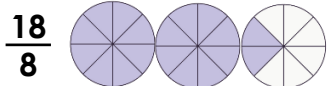
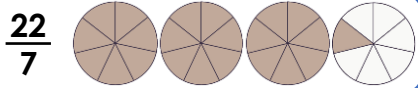


$$2 \frac{2}{8}$$



VF
HW/Ext

5. Convert the improper fractions to mixed numbers and sort them into the Carroll diagram.



	Numerator is even	Numerator is odd
Whole number > 2		
Whole number = or < 2		



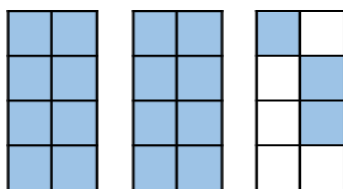
VF
HW/Ext

6. Identify the odd one out. Explain your answer.

A. $\frac{19}{8}$

B. $2 \frac{2}{8}$

C.



RPS
HW/Ext

Improper Fractions to Mixed Numbers

7. Match the improper fraction to its mixed number and draw a visual representation.

$$\frac{14}{6}$$

$$\frac{20}{6}$$

$$\frac{19}{6}$$

$$\frac{25}{6}$$

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

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

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

$$2\frac{2}{6}$$



VF
HW/Ext

8. Convert the improper fractions to mixed numbers and sort them into the Carroll diagram.

$$\frac{28}{8}$$

$$\frac{9}{4}$$

$$\frac{29}{6}$$

$$\frac{16}{10}$$

Whole number
> 2

Whole number
= or < 2

Numerator is
even

Numerator is
odd



VF
HW/Ext

9. Complete the fractions and the visual representation to create two equivalent fractions and one that is not equivalent.

A.

$$3\frac{\square}{12}$$

B.

$$\frac{\square}{12}$$

C.



RPS
HW/Ext

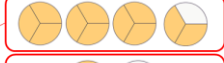
Homework/Extension

Improper Fractions to Mixed Numbers

Developing

1. $\frac{7}{3}$  $1\frac{2}{3}$

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

$\frac{8}{3}$  $3\frac{2}{3}$

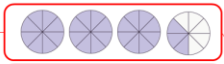
$\frac{11}{3}$  $2\frac{2}{3}$

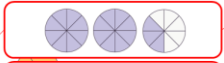
2.

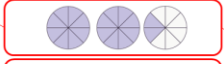
	Numerator is even	Numerator is odd
Whole number = 3		$3\frac{1}{5}$ $3\frac{1}{2}$
Whole number = or < 2	$2\frac{2}{4}$ $2\frac{4}{10}$	

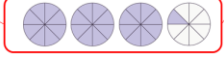
3. **A is the odd one out because it is $3\frac{2}{5}$ but B and C are $3\frac{1}{5}$.**

Expected

4. $\frac{27}{8}$  $2\frac{3}{8}$

$\frac{18}{8}$  $3\frac{1}{8}$

$\frac{25}{8}$  $3\frac{3}{8}$

$\frac{19}{8}$  $2\frac{2}{8}$

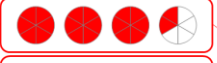
5.

	Numerator is even	Numerator is odd
Whole number > 2		$3\frac{1}{7}$
Whole number = or < 2	$2\frac{2}{8}$ $2\frac{2}{4}$	$2\frac{3}{5}$

6. **B is the odd one out because it is $2\frac{2}{8}$ but A and C are $2\frac{3}{8}$.**

Greater Depth

7. $\frac{14}{6}$  $4\frac{1}{6}$

$\frac{20}{6}$  $3\frac{1}{6}$

$\frac{19}{6}$  $3\frac{2}{6}$

$\frac{25}{6}$  $2\frac{2}{6}$

Accept any correct visual representation matched up the improper fraction.

8.

	Numerator is even	Numerator is odd
Whole number > 2	$3\frac{4}{8}$	$4\frac{5}{6}$
Whole number = or < 2	$1\frac{6}{10}$	$2\frac{1}{4}$

9. **Various answers, for example: B and C represent $3\frac{3}{12}$, and A represents $3\frac{4}{12}$.**