

Homework/Extension

Step 1: Unit and Non-Unit Fractions

National Curriculum Objectives:

Mathematics Year 3: (3F1b) [Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the fractions to shapes (circles, squares and rectangles) and amounts, using halves, thirds and quarters. Images organised in grids.

Expected Match the fractions to shapes (circles, squares, rectangles and triangles) and amounts. Various unit and non-unit fractions used. Images organised in grids.

Greater Depth Match the fractions to shapes and amounts. Various unit and non-unit fractions used. Images arranged randomly.

Questions 2, 5 and 8 (Varied Fluency)

Developing Complete the sentences and fractions to describe the representations. Using only circles, squares and rectangles; halves, thirds and quarters.

Expected Complete the sentences and fractions to describe the representations. Using circles, squares, rectangles and triangles and various unit and non-unit fractions.

Greater Depth Complete the sentences and fractions to describe the representations. Using a variety of shapes and various unit and non-unit fractions.

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

Developing Use digit cards to create unit and non-unit fractions to match the sequence, using only halves, thirds and quarters.

Expected Use digit cards to create unit and non-unit fractions to match the sequence where some parts of fractions are given.

Greater Depth Use digit cards to create unit and non-fractions to match the sequence where no parts of fractions are given. Discuss whether all digit cards can be used.

More [Year 3 Fractions](#) resources.

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

Unit and Non-Unit Fractions

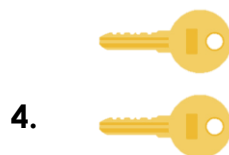
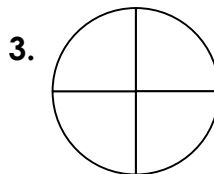
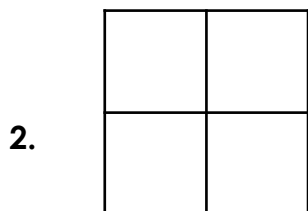
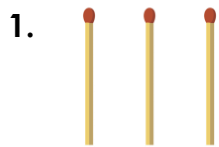
1. Match the fractions below to the representations by shading or circling the correct parts.

A. $\frac{2}{4}$

B. $\frac{1}{3}$

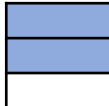
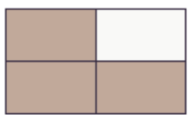
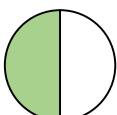
C. $\frac{1}{2}$

D. $\frac{1}{4}$



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2. Complete the sentences and the fractions to describe the representations.

Representation	Fraction	Sentence
	$\frac{\square}{3}$	_____ out of _____ equal parts.
	$\frac{\square}{4}$	_____ out of _____ equal parts.
	$\frac{\square}{2}$	_____ out of _____ equal parts.



VF
HW/Ext

3. Use the digit cards below to create fractions to match the sequence. Each digit card can be used more than once.

Unit fraction less
than one whole

↓
 $\frac{1}{\square}$

Non-unit
fraction equal
to one half

↓
 $\frac{\square}{4}$

Non-unit
fraction less
than one whole

↓
 $\frac{\square}{\square}$

Unit fraction
equal to one
whole

↓
 $\frac{1}{\square}$

1

2

3

4



RPS
HW/Ext

Unit and Non-Unit Fractions

4. Match the fractions below to the representations by shading or circling the correct parts.

A. Three out of ten equal parts

B. $\frac{2}{5}$

C. $\frac{1}{6}$

D. $\frac{2}{3}$

E. Five out of six equal parts



VF
HW/Ext

5. Complete the sentences and the fractions to describe the representations.

Representation	Fraction	Sentence
	$\frac{\square}{\square}$	_____ out of _____ equal parts.
	$\frac{\square}{\square}$	_____ out of _____ equal parts.
	$\frac{\square}{\square}$	_____ out of _____ equal parts.



VF
HW/Ext

6. Use the digit cards below to create fractions to match the sequence. Each digit card can be used more than once.

Unit fraction less than one whole

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

Non-unit fraction equal to one whole

___ out of ___ equal parts

Non-unit fraction less than one whole

$\frac{\square}{5}$

Unit fraction equal to one whole

$\frac{1}{\square}$

1

2

3

4

5



RPS
HW/Ext

Unit and Non-Unit Fractions

7. Match the fractions below to the representations by shading or circling the correct parts.

A. Nine out of twelve equal parts

B. Four fifths

C. $\frac{4}{8}$

D. $\frac{1}{9}$

E. Two out of three equal parts



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8. Complete the sentences and the fractions to describe the representations.

Representation	Fraction	Sentence
	$\frac{\square}{\square}$	_____ out of _____ equal parts.
	$\frac{\square}{\square}$	_____ out of _____ equal parts.
	$\frac{\square}{\square}$	_____ out of _____ equal parts.



VF
HW/Ext

9. Use the digit cards below to create fractions to match the sequence. Is it possible to use each card at least once?

Non-unit fraction with an even numerator

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

Non-unit fraction less than one whole

___ out of ___ equal parts

Non-unit fraction equal to one whole

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

Unit fraction equal to one whole

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

1

2

3

4

5

8

10



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Unit and Non-Unit Fractions

Developing

1. A2 or A3 with two parts shaded; B1 with one match circled; C4 with one key circled, D2 or D3 with one part shaded.
2. $\frac{2}{3}$, two out of three equal parts; $\frac{3}{4}$, three out of four equal parts; $\frac{1}{2}$ one out of two equal parts.
3. Various answers, for example: $\frac{1}{2}$; $\frac{2}{4}$; $\frac{3}{4}$; $\frac{1}{1}$.

Expected

4. A4 with three parts shaded; B2 with two parts shaded; C5 or C3 with one part circled or shaded; D1 with one part circled; E3 or E5 with five parts shaded or circled.
5. $\frac{6}{10}$, six out of ten equal parts; $\frac{3}{5}$, three out of five equal parts; $\frac{5}{8}$, five out of eight equal parts.
6. Various answers, for example: $\frac{1}{4}$; five out of five equal parts; $\frac{3}{5}$; $\frac{1}{1}$.

Greater Depth

7. A2 with nine parts shaded; B4 with four parts shaded; C5 with four of the balls circled; D1 with one part shaded; E3 with two of the matches circled.
8. $\frac{2}{4}$, two out of four equal parts; $\frac{2}{6}$, two out of six equal parts; $\frac{5}{10}$, five out of ten equal parts.
9. Various answers, for example: $\frac{2}{5}$; three out of eight equal parts; $\frac{10}{10}$; $\frac{1}{1}$. It is not possible to use each card at least once, there will always be one card left over.