

# Varied Fluency

## 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:

**Developing** Questions to support recognising and finding fractions of shapes (circles, squares and rectangles) and amounts. Fractions used:  $\frac{1}{2}$ ,  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$ ,  $\frac{2}{3}$ ,  $\frac{3}{4}$ . Images organised in grids.

**Expected** Questions to support recognising and finding fractions of shapes (circles, squares, rectangles and triangles) and amounts. Various unit and non-unit fractions used. Images organised in grids.

**Greater Depth** Questions to support recognising and finding fractions of shapes and amounts. Various unit and non-unit fractions used. Images arranged randomly.

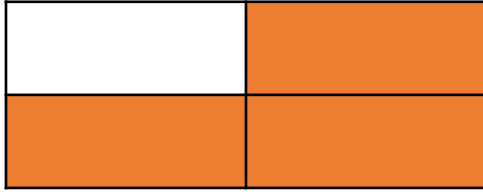
More [Year 3 Fractions](#) resources.

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

# Unit and Non-Unit Fractions

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1a. Circle the fraction shaded below.

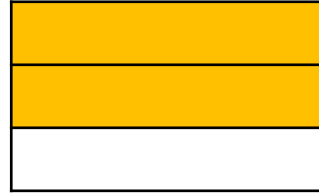


$\frac{3}{4}$     $\frac{4}{3}$     $\frac{4}{1}$



VF

1b. Circle the fraction shaded below.



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



VF

2a. Match the fraction to its representation.

Two thirds
$\frac{2}{4}$
One out of three equal parts
$\frac{3}{4}$

A	
B	
C	
D	



VF

2b. Match the fraction to its representation.

$\frac{1}{2}$
One third
$\frac{2}{3}$
Three out of four equal parts

A	
B	
C	
D	



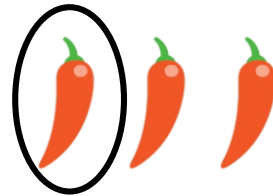
VF

3a. True or false? One quarter of the strawberries have been circled.



VF

3b. True or false? One half of the chillies have been circled.



VF

4a. Sort the fractions below.

Unit fractions     Non-unit fractions

Two quarters     Two thirds

$\frac{1}{2}$     $\frac{3}{4}$



VF

4b. Sort the fractions below.

Unit fractions     Non-unit fractions

$\frac{2}{3}$      Three quarters

One quarter

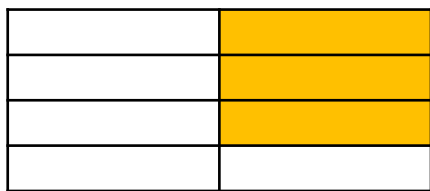


VF

# Unit and Non-Unit Fractions

# Unit and Non-Unit Fractions

5a. Circle the fraction represented here.

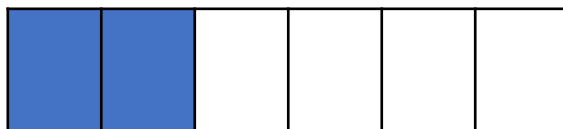


$\frac{3}{8}$     $\frac{3}{5}$     $\frac{8}{3}$



VF

5b. Circle the fraction represented here.



$\frac{6}{2}$     $\frac{2}{4}$     $\frac{4}{6}$



VF

6a. Match the fraction to its representation.

Four out of twelve equal parts
$\frac{4}{7}$
Two thirds
$\frac{3}{4}$

A	
B	
C	
D	



VF

6b. Match the fraction to its representation.

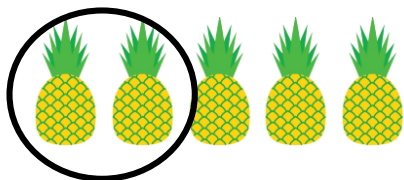
Two out of three equal parts
$\frac{2}{6}$
$\frac{3}{9}$
One half

A	
B	
C	
D	



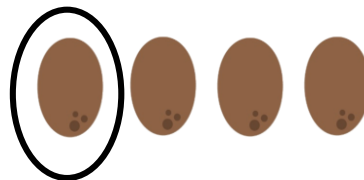
VF

7a. True or false? Three fifths of the pineapples have been circled.



VF

7b. True or false? One quarter of the coconuts have been circled.



VF

8a. Sort the fractions below.

Unit fractions                      Non-unit fractions

Three fifths                     

$\frac{5}{7}$                        $\frac{1}{10}$



VF

8b. Sort the fractions below.

Unit fractions                      Non-unit fractions

Two thirds                     

$\frac{5}{9}$                       Eight tenths

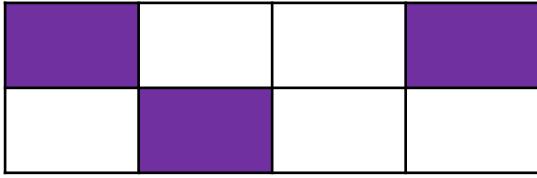


VF

# Unit and Non-Unit Fractions

# Unit and Non-Unit Fractions

9a. Circle the fraction represented here.

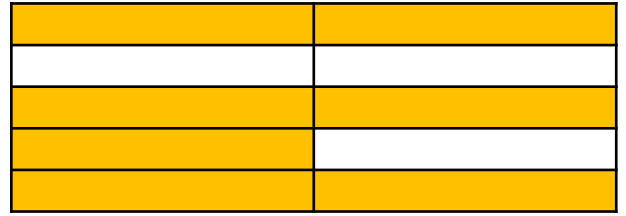


$\frac{8}{5}$     $\frac{3}{8}$     $\frac{3}{5}$



VF

9b. Circle the fraction represented here.



$\frac{10}{7}$     $\frac{3}{7}$     $\frac{7}{10}$



VF

10a. Match the fraction to its representation.

Four out of five equal parts
$\frac{4}{7}$
Four sixths
$\frac{3}{4}$

A	
B	
C	
D	



VF

10b. Match the fraction to its representation.

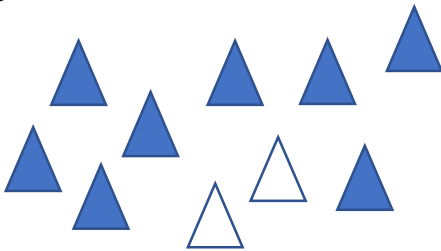
Two out of six equal parts
$\frac{4}{9}$
$\frac{3}{9}$
Three fifths

A	
B	
C	
D	



VF

11a. True or false? Eight tenths of the triangles are not shaded.



VF

11b. True or false? Three sixteenths of the stars are not shaded.



VF

12a. Sort the fractions below.

Unit fractions     Non-unit fractions

$\frac{1}{16}$     $\frac{9}{10}$    Seven ninths



VF

12b. Sort the fractions below.

Unit fractions     Non-unit fractions

$\frac{9}{11}$      One quarter

Eight twelfths  



VF

## Varied Fluency Unit and Non-Unit Fractions

### Developing

1a.  $\frac{3}{4}$

2a. A: two thirds, B:  $\frac{3}{4}$ , C:  $\frac{2}{4}$ , D: one out of three equal parts.

3a. True

4a. Unit fractions:  $\frac{1}{2}$  and  $\frac{1}{3}$ ; non-unit fractions: two quarters, two thirds and  $\frac{3}{4}$ .

### Expected

5a.  $\frac{3}{8}$

6a. A:  $\frac{4}{7}$ , B:  $\frac{3}{4}$ , C: two thirds, D: four out of twelve equal parts.

7a. False; two fifths have been circled.

8a. Unit fractions:  $\frac{1}{10}$ ,  $\frac{1}{2}$  and  $\frac{1}{5}$ ; non-unit fractions: three fifths and  $\frac{5}{7}$ .

### Greater Depth

9a.  $\frac{3}{8}$

10a. A: four out of five equal parts, B:  $\frac{3}{4}$ , C: four sixths, D:  $\frac{4}{7}$ .

11a. False; two tenths are not shaded.

12a. Unit fractions:  $\frac{1}{16}$ ; non-unit fractions:  $\frac{5}{8}$ ,  $\frac{9}{10}$ ,  $\frac{3}{10}$  and seven ninths.

## Varied Fluency Unit and Non-Unit Fractions

### Developing

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

2b. A:  $\frac{1}{2}$ , B: one third, C: three out of four equal parts, D:  $\frac{2}{3}$ .

3b. False; one third have been circled.

4b. Unit fractions: one quarter,  $\frac{1}{3}$  and  $\frac{1}{2}$ ; non-unit fractions: three quarters and  $\frac{2}{3}$ .

### Expected

5b.  $\frac{4}{6}$

6b. A: two out of three equal parts, B: one half, C:  $\frac{2}{6}$ , D:  $\frac{3}{9}$ .

7b. True

8a. Unit fractions:  $\frac{1}{2}$  and  $\frac{1}{3}$ ; non-unit fractions: two thirds, eight tenths and  $\frac{5}{9}$ .

### Greater Depth

9b.  $\frac{7}{10}$

10b. A:  $\frac{3}{9}$ , B: two out of six equal parts, C:  $\frac{4}{9}$ , D: three fifths.

11b. True

12b. Unit fractions: one quarter and  $\frac{1}{7}$ ; non-unit fractions: eight twelfths,  $\frac{9}{11}$  and  $\frac{6}{9}$ .

N.B. Children may correctly identify the non-shaded or shaded sections of shapes.