Non-Unit Fractions

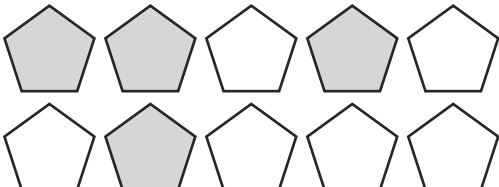To recognise and use unit and non-unit fractions of shapes and groups of objects.

1) Complete the sentences:

a)

_____ out of _____ equal parts are shaded.

b)

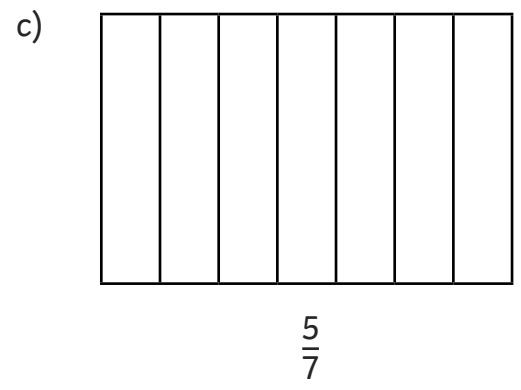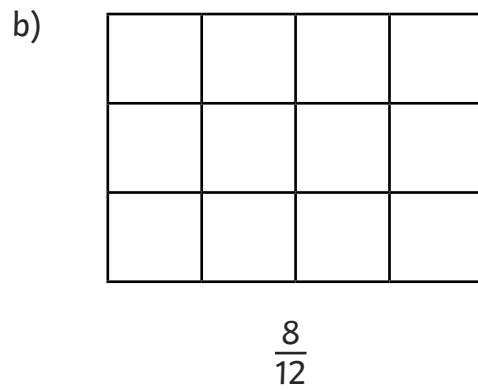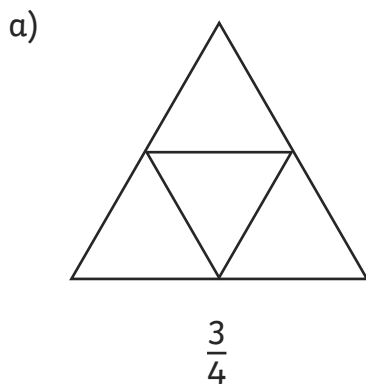_____ out of _____ objects are shaded.

c)

_____ of the shape is shaded.
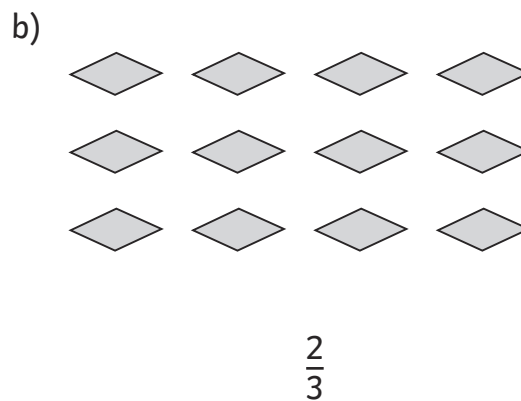
d)

_____ out of _____ equal parts are shaded.

e)

_____ out of _____ objects are shaded.

f)

_____ of the shape is shaded.

2) Shade the fraction shown.

a)

$\dfrac{3}{4}$

b)

$\dfrac{8}{12}$

c)

$\dfrac{5}{7}$

3) Circle the fraction shown.

a)

$\dfrac{3}{4}$

b)

$\dfrac{2}{3}$

4) Complete the sentences.

There are _____ socks in this group. _____ out of the 9 socks are stripy. $\dfrac{\square}{\square}$ are stripy.

_____ out of the 9 socks are spotty. $\dfrac{\square}{\square}$ are spotty.

$\dfrac{\square}{9}$ and $\dfrac{\square}{9}$ make one whole.

$\dfrac{5}{\square}$ and $\dfrac{\square}{9}$ = 1

Non-Unit Fractions **Answers**

Question		Answer
1. Complete the sentences.		
	a	**5 out of 8 equal parts are shaded.**
	b	**3 out of 4 objects are shaded.**
	c	$\frac{3}{8}$ **of the shape is shaded.**
	d	**5 out of 6 equal parts are shaded.**
	e	**4 out of 10 objects are shaded.**
	f	$\frac{2}{3}$ **of the shape is shaded.**
2. Shade the fraction shown.		
	a	**Any three of the parts shaded.**
	b	**Any eight of the parts shaded.**
	c	**Any five of the parts shaded.**
3. Circle the fraction shown.		
	a	**Any three columns circled.**
	b	**Any two rows circled.**
4.		
		There are 9 socks in this group. 5 out of 9 are stripy. $\frac{5}{9}$ **are stripy. 4 out of the 9 socks are spotty.** $\frac{4}{9}$ **are spotty.** $\frac{5}{9}$ **and** $\frac{4}{9}$ **make one whole.** $\frac{5}{9}$ **and** $\frac{4}{9}$ **= 1**

Non-Unit Fractions

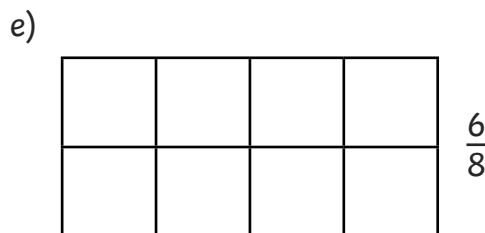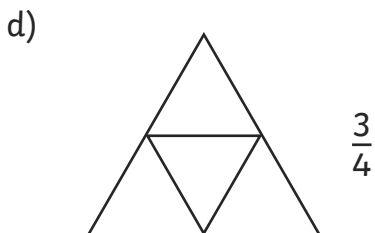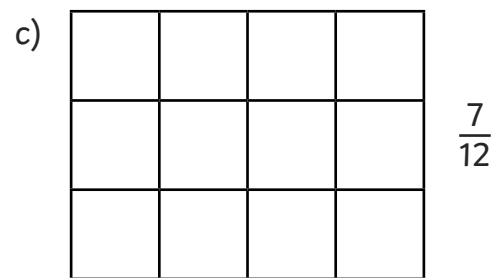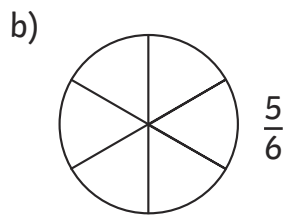To recognise and use unit and non-unit fractions of shapes and groups of objects.

1)

a) Sort these fractions into unit fractions and non-unit fractions.

$$\frac{1}{9} \quad \frac{2}{10} \quad \frac{3}{4} \quad \frac{1}{4} \quad \frac{5}{9} \quad \frac{2}{3} \quad \frac{1}{7} \quad \frac{4}{6} \quad \frac{1}{2}$$

Unit Fractions	Non-Unit Fractions
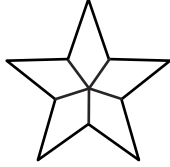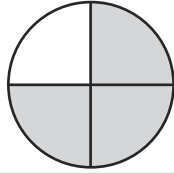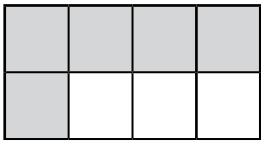
b) Add one more fraction to each group.

2) Shade or circle the fraction shown.

a) $\frac{4}{7}$

b) $\frac{5}{6}$

c) $\frac{7}{12}$

d) $\frac{3}{4}$

e) $\frac{6}{8}$

f) $\frac{3}{4}$
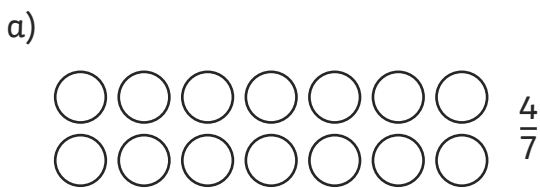
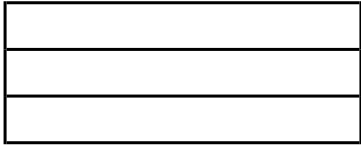2) Shade the fraction shown.

Words	Number	Representation
two thirds		
four fifths		

4) Complete the sentences.

There are _____ shapes in this group. _____ out of the 7 shapes are squares. $\dfrac{\square}{\square}$ are squares.

_____ out of the 7 shapes are triangles. $\dfrac{\square}{\square}$ are triangles.

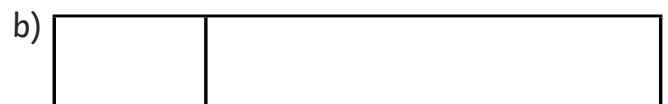$\dfrac{\square}{7}$ and $\dfrac{\square}{7}$ make one whole.

$\dfrac{5}{\square}$ and $\dfrac{\square}{7}$ = 1

5) Each bar model is one whole. One fraction is given. What is the other fraction?
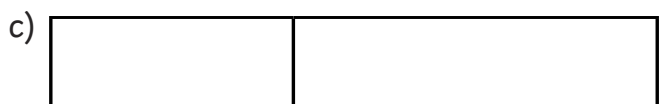The first one is completed.

a)

$\frac{2}{3} + \frac{1}{3}$ = one whole

b)

$\frac{1}{4} + \frac{\ }{4}$ = one whole
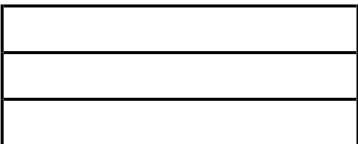
c)
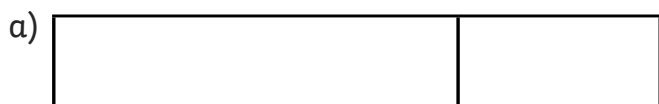
$\frac{2}{5} + -$ = one whole

Non-Unit Fractions **Answers**

1)
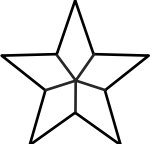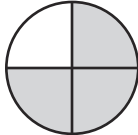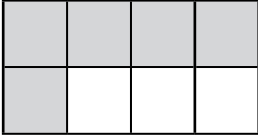
a) Sort these fractions into unit fractions and non-unit fractions.

Unit Fractions				Non-Unit Fractions				
$\dfrac{1}{9}$	$\dfrac{1}{4}$	$\dfrac{1}{7}$	$\dfrac{1}{2}$	$\dfrac{2}{10}$	$\dfrac{3}{4}$	$\dfrac{5}{9}$	$\dfrac{2}{3}$	$\dfrac{4}{6}$

b) Add one more fraction to each group.

   Any unit fraction and non-unit fraction added to each group.

Question	Answer
2. Shade or circle the fraction shown.	
a	**Any four columns circled.**
b	**Any five of the parts shaded.**
c	**Any seven of the parts shaded.**
d	**Any three of the parts shaded.**
e	**Any six of the parts shaded.**
f	**Any three of the rows circled.**

3) Complete the table

Words	Number	Representation	
two thirds	$\dfrac{2}{3}$		**Any two of the parts shaded**
four fifths	$\dfrac{4}{5}$		**Any two of the parts shaded**
Three quarters	$\dfrac{3}{4}$		
Five eighths	$\dfrac{5}{8}$		

Question	Answer
4. Complete the sentences	
	There are 7 shapes in this group. 5 out of 7 shapes are squares. $\frac{5}{7}$ are squares. 2 out of the 7 shapes are triangles. $\frac{2}{7}$ are triangles. $\frac{5}{7}$ and $\frac{2}{7}$ make one whole. $\frac{5}{7}$ and $\frac{2}{7}$ = 1
5. Each bar model is one whole. One fraction is given. What is the other fraction? The first one is completed.	
b	$\frac{1}{4}$ + $\frac{3}{4}$ = **one whole**
c	$\frac{3}{5}$ + $\frac{2}{5}$ = **one whole**

Non-Unit Fractions

To recognise and use unit and non-unit fractions of shapes and groups of objects.

1)

a) Describe how a non-unit fraction is different from a unit fraction.

_____

_____

b) Draw a unit fraction.

b) Draw a non-unit fraction.

2) Sometimes, always or never? Explain your answer.

a) A numerator on a non-unit fraction is bigger than 1.

_____

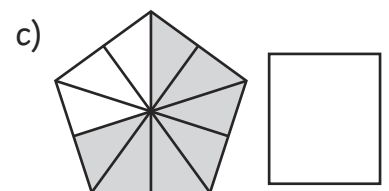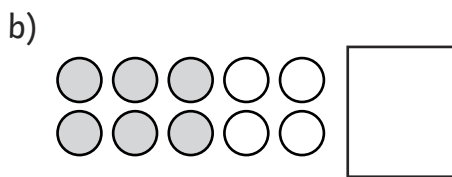b) A denominator on a unit fraction is smaller than the numerator.

_____

c) The numerator and denominator on a non-unit fraction are both even numbers.

_____

3) Write the fraction shaded or circled.

a)

b)

c)

4) Shade or circle the fraction shown.

a) $\frac{3}{7}$

b) $\frac{5}{8}$

c) $\frac{3}{4}$
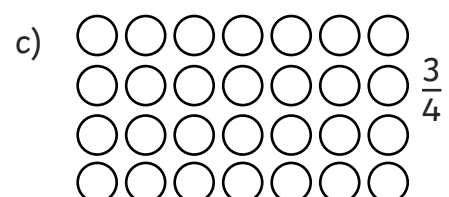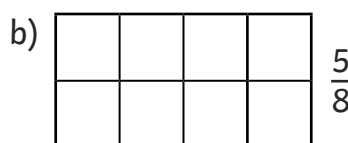
5) Draw 2 different models or groups of objects to show the fractions shown. One has been done.

a)

$\frac{2}{3}$

b)

$\frac{4}{7}$

c)

$\frac{3}{4}$

6) Each bar model is one whole. One fraction is given. What is the other fraction?
The first one is completed.

a)

$\frac{2}{3} + \frac{1}{3}$ = one whole

b)

$\frac{1}{5} + \frac{}{5}$ = one whole

c)

$\frac{}{7} + \frac{2}{}$ = one whole

7) Draw your own bar models to show:

a) $\frac{3}{4} + \frac{1}{4}$ = one whole

b) $\frac{5}{6} + \frac{1}{6}$ = one whole

Non-Unit Fractions **Answers**

Question		Answer
1. Describe how a non-unit fraction is different from a unit fraction.		
	a	**The numerator on a unit fraction is 1 but on a non-unit fraction it is more than 1.**
	b	**Any unit fraction.**
	c	**Any non-unit fraction.**
2. Sometimes, always or never true? Explain your answer.		
	a	**Always true.**
	b	**Never true. On a unit fraction the numerator is always 1 which is smaller then the denominator.**
	c	**Sometimes true. They can both be even but also neither can be even or either one can be even while the other is odd.**
3. Write the fraction shaded or circled.		
	a	$\frac{2}{3}$
	b	$\frac{3}{5}$
	c	$\frac{7}{10}$
4. Shade or circle the fraction shown.		
	a	**Any three of the stars circled.**
	b	**Any five of the parts shaded.**
	c	**Any 3 of the rows circled or shaded (or 21 of the circles)**
5. Draw 2 different models or groups of objects to show the fractions shown. One has been done.		
	b	**Any two models showing four sevenths.**
	c	**Any two models showing three quarters.**
6. Draw 2 different models or groups of objects to show the fractions shown. One has been done.		
	b	$\frac{1}{5} + \frac{4}{5} =$ **one whole**
	c	$\frac{5}{7} + \frac{2}{7} =$ **one whole**

Non-Unit Fractions **Answers**

7) Draw your own bar models to show:

a) $\frac{3}{4} + \frac{1}{4}$ = one whole

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

b) $\frac{5}{6} + \frac{1}{6}$ = one whole

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