Improper Fractions to Mixed Numbers
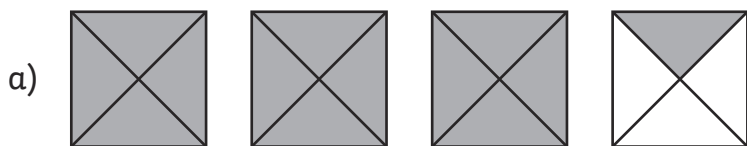
To convert from improper fractions to mixed numbers.

1) Shade in the shapes to help you convert the improper fractions to mixed numbers. The first one has been shaded for you.

a) $\dfrac{13}{4} = \square\,\dfrac{\square}{\square}$

b) $\dfrac{8}{3} = \square\,\dfrac{\square}{\square}$

c) $\dfrac{12}{5} = \square\,\dfrac{\square}{\square}$

2) Draw counters to convert these improper fractions to mixed numbers.

$\dfrac{13}{4} = \square\,\dfrac{\square}{\square}$

$\dfrac{7}{5} = \square\,\dfrac{\square}{\square}$

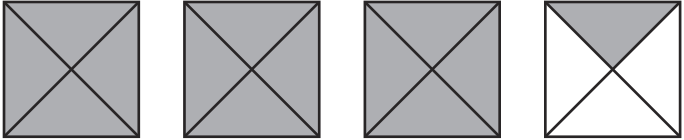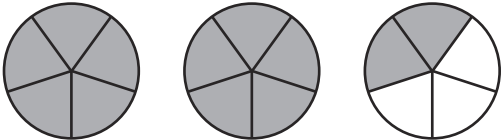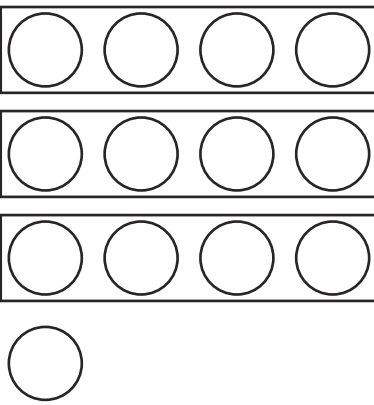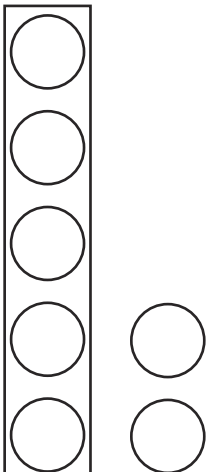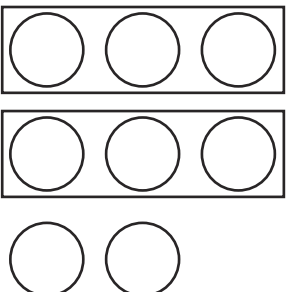$\dfrac{8}{3} = \square\,\dfrac{\square}{\square}$

Improper Fractions to Mixed Numbers **Answers**

Question	Answer
1. Shade in the shapes to help you convert the improper fractions to mixed numbers. The first one has been shaded for you.	

a

$\frac{13}{4}$ = **3** $\frac{1}{4}$

b

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

c

$\frac{12}{5}$ = **2** $\frac{2}{5}$

2. Draw counters to convert these improper fractions to mixed numbers.

$\frac{13}{4}$ = **3** $\frac{1}{4}$

$\frac{7}{5}$ = **1** $\frac{2}{5}$

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

Improper Fractions to Mixed Numbers

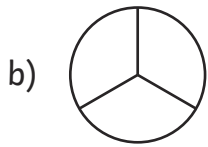To convert from improper fractions to mixed numbers.

1) Draw and shade in shapes to help you convert the improper fractions to mixed numbers. The first shape for each question has been given for you.

a) $\frac{13}{4} = \square\frac{\square}{\square}$

b) $\frac{8}{3} = \square\frac{\square}{\square}$
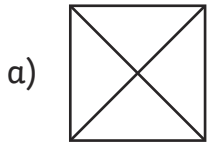
c) $\frac{8}{5} = \square\frac{\square}{\square}$

2) Draw counters to convert these improper fractions to mixed numbers.
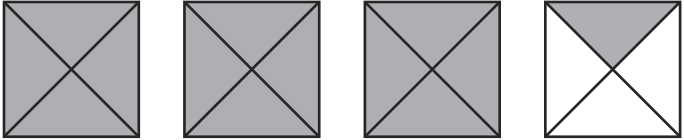
$\frac{9}{5} = \square\frac{\square}{\square}$

$\frac{10}{4} = \square\frac{\square}{\square}$

$\frac{7}{3} = \square\frac{\square}{\square}$

3) Can you explain the mistake that Fred has made? You could use shapes or counters to help you.

$\frac{17}{4} = 1\frac{7}{4}$

twinkl planit ★★

Maths | Fractions | Improper and Mixed Fractions |
Lesson 3 of 4: Improper Fractions to Mixed Numbers

visit twinkl.com

twinkl
Quality Standard
Approved

Improper Fractions to Mixed Numbers **Answers**

Question	Answer
1. Draw and shade in shapes to help you convert the improper fractions to mixed numbers. The first shape for each question has been given for you.	

a	$\frac{13}{4} = 3\frac{1}{4}$
b	$\frac{8}{3} = 2\frac{2}{3}$
c	$\frac{8}{5} = 1\frac{3}{5}$

2. Draw counters to convert these improper fractions to mixed numbers.

$\frac{9}{5} = 1\frac{4}{5}$

$\frac{10}{4} = 2\frac{2}{4}$
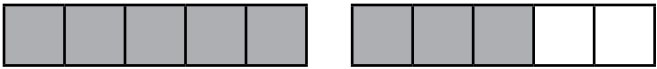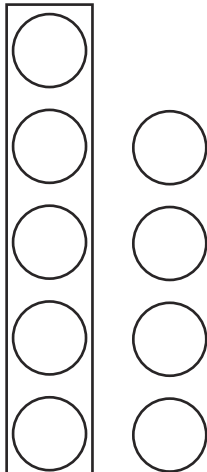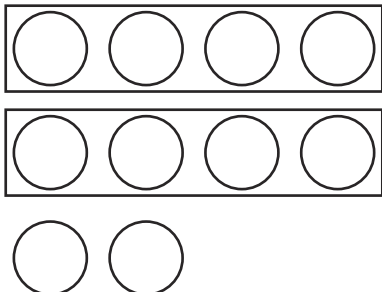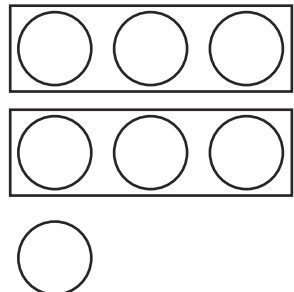
$\frac{7}{3} = 2\frac{1}{3}$

3. Can you explain the mistake that Fred has made? You could use shapes or counters to help you.

$\frac{17}{4} = 1\frac{7}{4}$

	Children could have shown $\frac{17}{4}$ either in counters or using shapes. They will identify that there are 4 wholes and 1 part remaining. $\frac{17}{4} = 4\frac{1}{4}$. Freddie has simply split the numerator into its digits and used these to create the mixed number.

Improper Fractions to Mixed Numbers

To convert from improper fractions to mixed numbers.

1) Draw and shade in shapes to help you convert the improper fractions to mixed numbers.

a) $\frac{13}{4} = \boxed{}\frac{\boxed{}}{\boxed{}}$

b) $\frac{8}{3} = \boxed{}\frac{\boxed{}}{\boxed{}}$

c) $\frac{19}{6} = \boxed{}\frac{\boxed{}}{\boxed{}}$

2) Draw counters to convert the improper fractions to mixed numbers. Then, use <, > or = to make the statements below true.

$$\frac{14}{3} \ \boxed{} \ 4\frac{1}{3}$$

$$\frac{43}{4} \ \boxed{} \ 10\frac{1}{4}$$
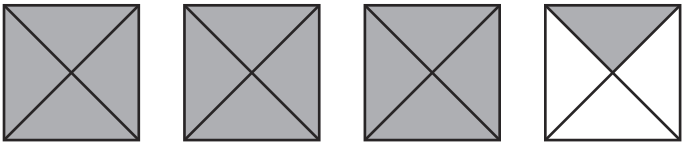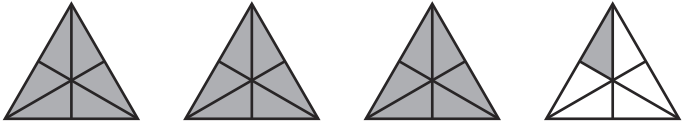
3) Investigate what A and B could be for each calculation. Then, write down anything you notice.

a) $\frac{A}{4} = 1\frac{B}{4}$

_____

_____

_____

_____

twinkl planit ★ ★ ★

Maths | Fractions | Improper and Mixed Fractions |
Lesson 3 of 4: Improper Fractions to Mixed Numbers

visit twinkl.com

twinkl
Quality Standard
Approved

b) $\dfrac{A}{5} = 2\dfrac{B}{5}$

_____

_____

_____

_____

_____

c) $\dfrac{A}{6} = 3\dfrac{B}{6}$

_____

_____

_____

_____

_____

twinkl planit ★ ★ ★

Maths | Fractions | Improper and Mixed Fractions |
Lesson 3 of 4: Improper Fractions to Mixed Numbers

visit twinkl.com

twinkl
Quality Standard
Approved

Improper Fractions to Mixed Numbers **Answers**

Question	Answer
1. Draw and shade in shapes to help you convert the improper fractions to mixed numbers. **Children's shapes may vary. An example is shown below.**	
a	$\frac{13}{4}$ = $\boxed{3}\frac{\boxed{1}}{\boxed{4}}$
b	$\frac{8}{3}$ = $\boxed{2}\frac{\boxed{2}}{\boxed{3}}$
c	$\frac{19}{6}$ = $\boxed{3}\frac{\boxed{1}}{\boxed{6}}$
2. Draw counters to convert the improper fractions to mixed numbers. Then, use <, > or = to make the statements below true.	
a	$\frac{14}{3}$ $\boxed{>}$ $4\frac{1}{3}$
b	$\frac{43}{4}$ $\boxed{>}$ $10\frac{1}{4}$
3. Investigate what A and B could be for each calculation. Then, write down anything you notice. **Children may notice that the difference between A and B is the same as the whole number and denominator multiplied together. They may notice that the number of possible answers is one less than the denominator.**	
a	A = **5**, B = **1** A = **6**, B = **2** A = **7**, B = **3**
b	A = **11**, B = **1** A = **12**, B = **2** A = **13**, B = **3** A = **14**, B = **4**
c	A = **19**, B = **1** A = **20**, B = **2** A = **21**, B = **3** A = **22**, B = **4** A = **23**, B = **5**