## Converting Fractions

To solve calculations converting between mixed numbers and improper fractions.


1) Express these mixed numbers as improper fractions. Use the bar models to help you work out the answers, filling them in where needed.
a) $2 \frac{3}{4}=$ $\qquad$

| 1 |  |  |  | 1 |  |  |  | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{4}$ |

b) $3 \frac{1}{3}=$ $\qquad$

| 1 |  |  | 1 |  |  | 1 |  |  | $\frac{1}{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |

c) $1 \frac{4}{5}=$ $\qquad$

2) Express these improper fractions as mixed numbers. Use the counters to help you work out the answers, drawing and grouping them where needed.
a) $\frac{13}{4}=$ $\qquad$
$\frac{1}{4}$

$\frac{1}{4}$


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

c) $\frac{8}{3}=$


## Converting Fractions Answers

## Question

Answer

1. Express these improper fractions as mixed numbers.

2. Express these improper fractions as mixed numbers.

b
$\frac{8}{5}=1 \frac{3}{5}$

| $\frac{1}{5}$ | $\frac{1}{5}$ 1 |
| :--- | :--- |


c $\quad \frac{8}{3}=\mathbf{2} \frac{2}{3}$


## Converting Fractions

To solve calculations converting between mixed numbers and improper fractions.

1) Express these mixed numbers as improper fractions.
a) $1 \frac{3}{4}=$ $\qquad$
b) $3 \frac{1}{3}=$ $\qquad$
c) $2 \frac{4}{5}=$ $\qquad$
2) Express these improper fractions as mixed numbers.
a) $\frac{11}{4}=$ $\qquad$
b) $\frac{9}{5}=$ $\qquad$
c) $\frac{10}{3}=$ $\qquad$
3) Will baked 8 fairy cakes. Each cake weighed $\frac{1}{5} \mathrm{~kg}$. How much did the cakes weigh overall? Express your answer as a mixed number.
4) Katie needs $4 \frac{1}{2}$ litres of paint to paint her bedroom. Each can of paint holds $\frac{1}{2} \mathrm{l}$. How many cans of paint does she need?
$\qquad$


## Converting Fractions Answers

## Question

Answer

1. Express these mixed numbers as improper fractions.

| $a$ | $1 \frac{3}{4}=\frac{7}{4}$ |
| ---: | :--- |
| $b$ | $3 \frac{1}{3}=\frac{10}{3}$ |
| $c$ | $2 \frac{4}{5}=\frac{\mathbf{1 4}}{5}$ |

2. Express these improper fractions as mixed numbers.

| $a$ | $\frac{11}{4}=2 \frac{3}{4}$ |
| :--- | :--- |
| $b$ | $\frac{9}{5}=1 \frac{4}{5}$ |
| $c$ | $\frac{10}{3}=3 \frac{1}{3}$ |

3. Will baked 8 fairy cakes. Each cake weighed $\frac{1}{5} \mathrm{~kg}$. How much did the cakes weigh overall? Express your answer as a mixed number.

The cakes weighed $1 \frac{3}{5} \mathrm{~kg}$ overall.
4. Katie needs $4 \frac{1}{2}$ litres of paint to paint her bedroom. Each can of paint holds $\frac{1}{2}$ l. How many cans of paint does she need?

Katie needs 9 cans of paint.

## Converting Fractions

To solve calculations converting between mixed numbers and improper fractions.

1) Express these mixed numbers as improper fractions.
a) $2 \frac{3}{4}=$ $\qquad$
b) $4 \frac{1}{3}=$ $\qquad$
2) Express these improper fractions as mixed numbers.
a) $\frac{19}{4}=$ $\qquad$
b) $\frac{7}{6}=$ $\qquad$
3) Aisha wrapped some presents that weighed $5 \frac{2}{3} \mathrm{~kg}$ altogether. Each present weighed $\frac{1}{3} \mathrm{~kg}$. How many presents did Aisha wrap?
$\qquad$
4) Sam ran 11 laps around the school playground. Each lap was half a mile long. How far did he run in total? Express your answer as a mixed number.
$\qquad$
5) Express $3 \frac{2}{5}$ as an improper fraction.


I think I could use
multiplication to solve this.

What do you think? Do you agree or disagree with Joseph? Explain why.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

## Converting Fractions Answers

## Question

Answer

1. Express these mixed numbers as improper fractions.

| $a$ | $2 \frac{3}{4}=\frac{11}{4}$ |
| ---: | :--- |
| $b$ | $4 \frac{1}{3}=\frac{13}{3}$ |

2. Express these improper fractions as mixed numbers.

| a | $\frac{19}{4}=4 \frac{3}{4}$ |
| :--- | :--- |
| b | $\frac{7}{6}=\mathbf{1} \frac{1}{6}$ |

3. Aisha wrapped some presents that weighed $5 \frac{2}{3} \mathrm{~kg}$ altogether. Each present weighed $\frac{1}{3} \mathrm{~kg}$. How many presents did Aisha wrap?

## Aisha wrapped 17 presents.

4. Sam ran 11 laps around the school playground. Each lap was half a mile long. How far did he run in total? Express your answer as a mixed number.

Sam ran $5 \frac{1}{2}$ laps in total.
5. Express $3 \frac{2}{5}$ as an improper fraction. 'I think I could use multiplication to solve this.' What do you think? Do you agree or disagree with Joseph? Explain why.

This question is included to encourage children to make the link to multiplication, ready to look at this topic again in year 5. Look for understanding that ' 3 groups of 5 ' is $3 \times 5$.

