

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 $2 \frac{3}{4} = \frac{11}{4}$

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

b $3 \frac{1}{3} = \frac{10}{3}$

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

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

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

2. Express these mixed numbers as improper fractions.

a $1 \frac{3}{4} = \frac{7}{4}$

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

c $2 \frac{4}{5} = \frac{14}{5}$

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

The cakes weighed $1 \frac{3}{5}$ kg overall.

4. Katie need $4 \frac{1}{2}$ litres of paint to paint her bedroom. Each can of paint holds $\frac{1}{2}$ litre. How many cans of paint does she need?

Katie needs 9 cans of paint.