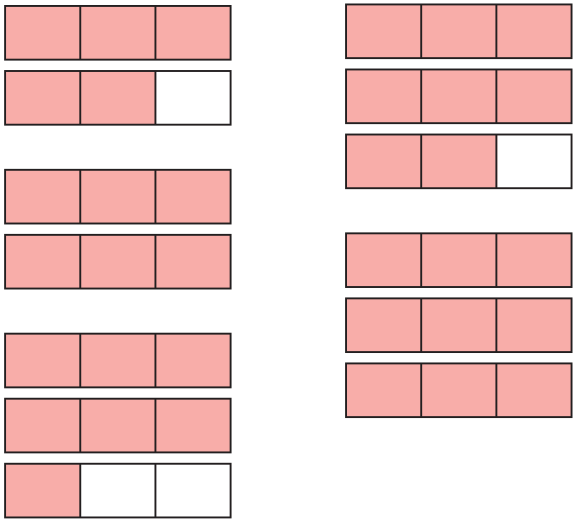
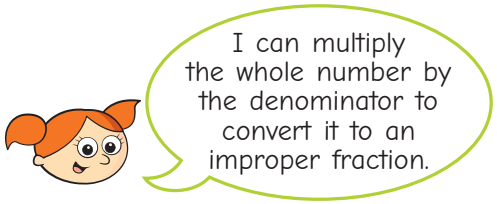
Convert mixed numbers to improper fractions

1 Write the mixed numbers and improper fractions shown by the bar models.



What do you notice?

2 Alex is writing integers and improper fractions.



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

$2 = \frac{8}{4}$

$3 = \frac{12}{4}$

Use Alex's method to write the integers as improper fractions.

a) $4 = \frac{\square}{4}$ **c)** $8 = \frac{\square}{2}$ **e)** $6 = \frac{\square}{5}$

b) $8 = \frac{\square}{4}$ **d)** $3 = \frac{\square}{5}$ **f)** $5 = \frac{\square}{6}$

3 Complete the sentences to convert the mixed number to an improper fraction.

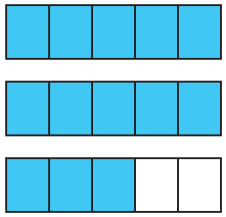
The integer in the mixed number is $\square$

This is equivalent to $\square$ fifths.

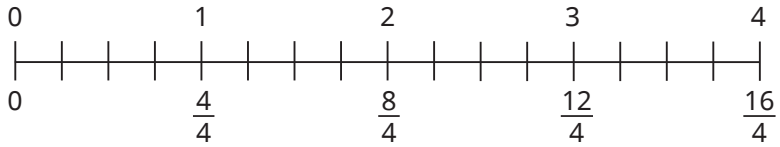
There are $\square$ more fifths.

$\square + \square = \square$

So the improper fraction is $\square$



4 Use the number line to convert the mixed numbers to improper fractions.



a) $1\frac{3}{4}$ **b)** $3\frac{1}{4}$ **c)** $2\frac{2}{4}$

5 Convert the mixed numbers to improper fractions.

a) $3\frac{1}{6}$ **b)** $2\frac{5}{7}$ **c)** $6\frac{2}{3}$ **d)** $8\frac{1}{2}$

Convert mixed numbers to improper fractions

3 Complete the sentences to convert the mixed number to an improper fraction.

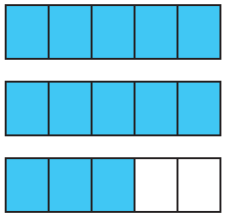
The integer in the mixed number is ☐

This is equivalent to ☐ fifths.

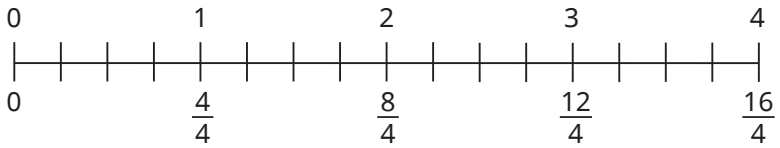
There are ☐ more fifths.

☐ + ☐ = ☐

So the improper fraction is ☐



4 Use the number line to convert the mixed numbers to improper fractions.



a) $1\frac{3}{4}$ **b)** $3\frac{1}{4}$ **c)** $2\frac{2}{4}$

5 Convert the mixed numbers to improper fractions.

a) $3\frac{1}{6}$ **b)** $2\frac{5}{7}$ **c)** $6\frac{2}{3}$ **d)** $8\frac{1}{2}$

6 Convert the mixed numbers to improper fractions.

a) $3\frac{3}{4}$ $3\frac{2}{4}$ $3\frac{1}{4}$ **b)** $4\frac{2}{3}$ $5\frac{2}{3}$ $6\frac{2}{3}$

What do you notice?

7 Tiny has converted $4\frac{5}{8}$ to an improper fraction.

a) Explain how Tiny can use this fact to convert $4\frac{4}{8}$

b) Explain how Tiny can use this fact to convert $5\frac{5}{8}$

Talk about your answers with a partner.

c) Convert the mixed numbers to improper fractions.

$3\frac{5}{8}$ $5\frac{6}{8}$ $14\frac{5}{8}$

8 What could the missing number be?

Write your answer as an improper fraction.

$$3\frac{5}{7} < \square < 5\frac{2}{7}$$

Compare answers with a partner.