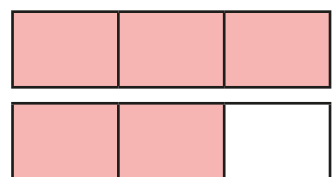


# Convert mixed numbers to improper fractions

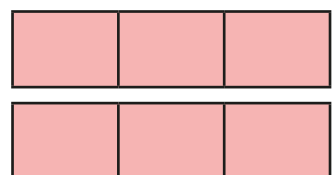
- 1 Write the mixed numbers and improper fractions shown by the bar models.



mixed number

improper fraction

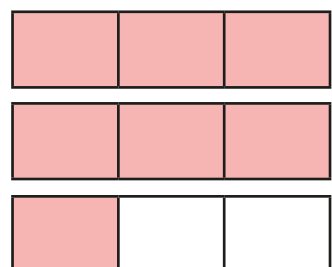
$\frac{5}{3}$



mixed number

2

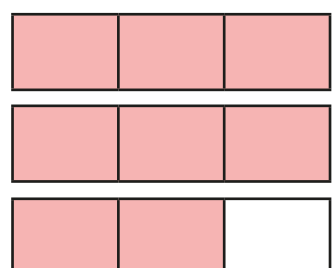
improper fraction



mixed number

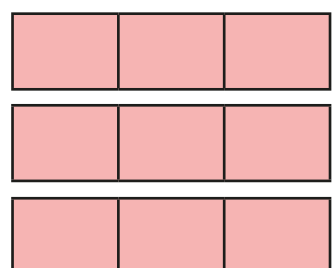
$2\frac{1}{3}$

improper fraction



mixed number

improper fraction

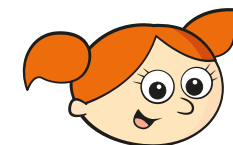


mixed number

improper fraction

What do you notice?

- 2 Alex is writing integers and improper fractions.



I can multiply the whole number by the denominator to convert it to an improper fraction.

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

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

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

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

a)  $4 = \frac{\boxed{\phantom{000}}}{4}$

c)  $8 = \frac{\boxed{\phantom{000}}}{2}$

e)  $6 = \frac{\boxed{\phantom{000}}}{5}$

b)  $8 = \frac{\boxed{\phantom{000}}}{4}$

d)  $3 = \frac{\boxed{\phantom{000}}}{5}$

f)  $5 = \frac{\boxed{\phantom{000}}}{6}$

- 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.

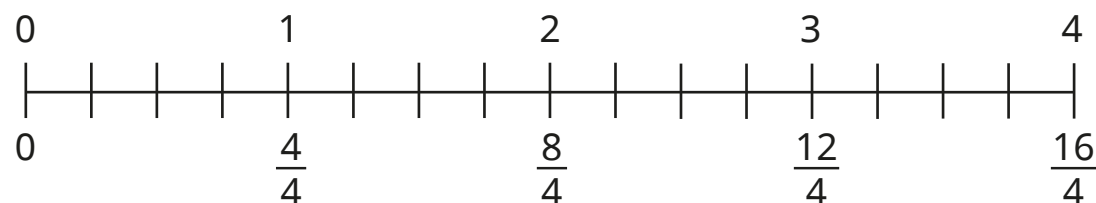


$$\boxed{\phantom{000}} + \boxed{\phantom{000}} = \boxed{\phantom{000}}$$

So the improper fraction is



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



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

- 5 Convert the mixed numbers to improper fractions.

a)  $3\frac{1}{6} = \square$       c)  $6\frac{2}{3} = \square$

b)  $2\frac{5}{7} = \square$       d)  $8\frac{1}{2} = \square$

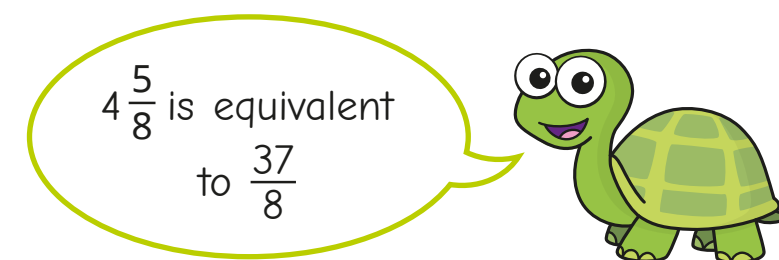
- 6 Convert the mixed numbers to improper fractions.

a)  $3\frac{3}{4} = \square$        $3\frac{2}{4} = \square$        $3\frac{1}{4} = \square$

b)  $4\frac{2}{3} = \square$        $5\frac{2}{3} = \square$        $6\frac{2}{3} = \square$

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  $4\frac{4}{8}$

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

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Talk about your answers with a partner.

- c) Convert the mixed numbers to improper fractions.

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

- 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.