Convert between mixed numbers and fractions
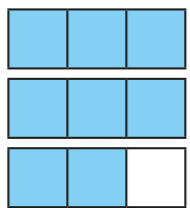
1 Circle the mixed number.

$1\frac{1}{2}$ $\frac{3}{2}$ 1.5

2 Circle the improper fraction.
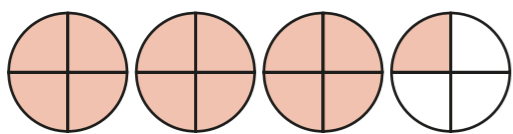
$1\frac{1}{2}$ $\frac{3}{2}$ 1.5

3 **a)** Write the numbers represented by the diagrams as a mixed number and as an improper fraction.


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0          1          2
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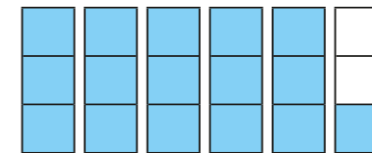**b)** Draw a representation of the mixed number $1\frac{3}{5}$

c) Write $1\frac{3}{5}$ as an improper fraction.

d) Draw a representation of the improper fraction $\frac{8}{5}$

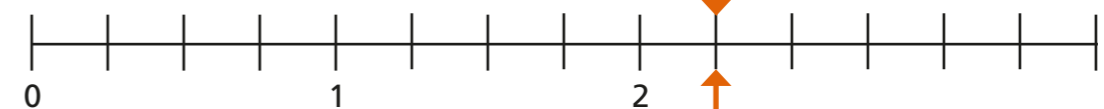**4** Filip has been asked to draw a representation of five thirds.

Here is his answer.

a) Explain the mistake that Filip has made.

b) Draw a representation of five thirds.

c) Write five thirds as a mixed number.

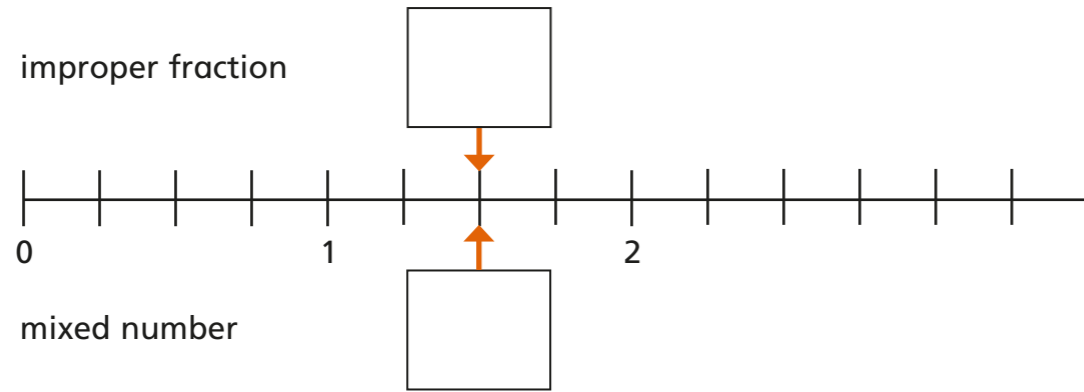**5** Write the numbers as improper fractions and mixed numbers.

a)

improper fraction

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0          1          2
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mixed number

b)

improper fraction

mixed number

6 Dani is working out $3\frac{1}{4}$ as an improper fraction.

Here is her working out.

$$3 \times 1 + 4 = 7$$
$$\text{So } 3\frac{1}{4} = \frac{7}{4}$$

What mistake has Dani made?

7 Convert the mixed numbers to improper fractions.

a) $2\frac{1}{3} = \dfrac{\Box}{\Box}$

c) $6\frac{3}{4} = \dfrac{\Box}{\Box}$

b) $3\frac{2}{5} = \dfrac{\Box}{\Box}$

d) $2\frac{9}{10} = \dfrac{\Box}{\Box}$

8 Convert the improper fractions to mixed numbers.

a) $\frac{7}{2} = \Box\dfrac{\Box}{\Box}$

c) $\frac{19}{6} = \Box\dfrac{\Box}{\Box}$

b) $\frac{7}{3} = \Box\dfrac{\Box}{\Box}$

d) $\frac{87}{10} = \Box\dfrac{\Box}{\Box}$

9 Fill in the missing numbers.

a) $\dfrac{11}{\Box} = 2\dfrac{3}{\Box}$

c) $\dfrac{22}{\Box} = 4\dfrac{2}{\Box}$

b) $\dfrac{19}{3} = \Box\dfrac{\Box}{3}$

d) $\dfrac{37}{5} = \Box\dfrac{\Box}{10}$

10 Complete the statement.

$$5\frac{1}{4} = 4\dfrac{\Box}{4} = 3\dfrac{\Box}{4} = 2\dfrac{\Box}{4} = 1\dfrac{\Box}{4} = \dfrac{\Box}{4}$$

What did you notice? Why did this happen?

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