

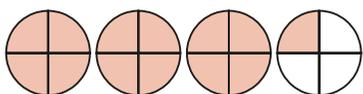
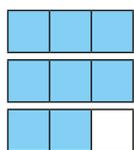
1 Which is the mixed number?

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

2 Which is 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.



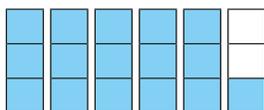
b) Draw a representation of the mixed number $1\frac{3}{5}$

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.



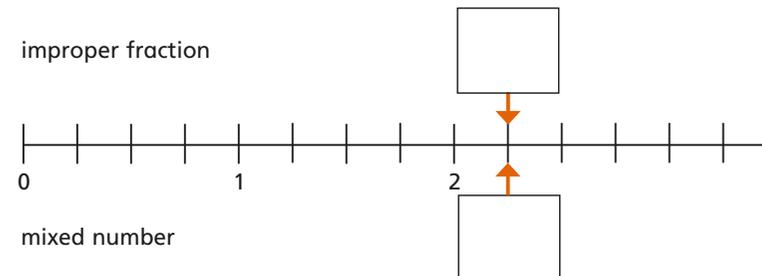
a) Explain the mistake that Filip has made.

b) Draw a representation of five thirds.

c) Write five thirds as a mixed number.

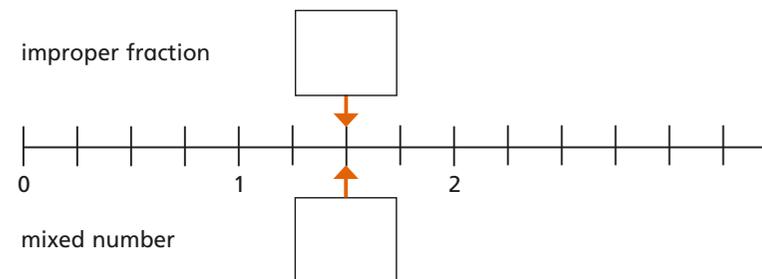
5 Write the numbers as improper fractions and mixed numbers.

a) improper fraction



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.

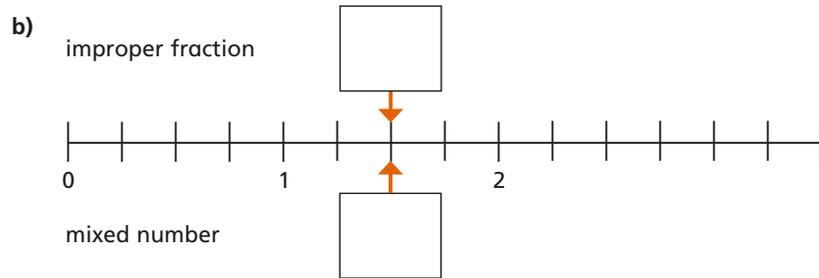
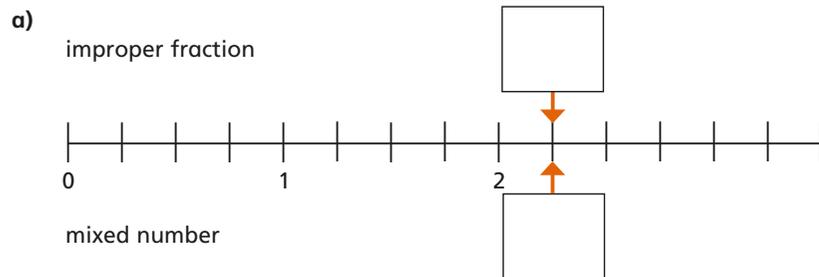
a) $2\frac{1}{3}$

b) $3\frac{2}{5}$

c) $6\frac{3}{4}$

d) $2\frac{9}{10}$

5 Write the numbers as improper fractions and mixed numbers.



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) $2\frac{1}{3}$ b) $3\frac{2}{5}$ c) $6\frac{3}{4}$ d) $2\frac{9}{10}$

8 Convert the improper fractions to mixed numbers.

a) $\frac{7}{2}$

b) $\frac{7}{3}$

c) $\frac{19}{6}$

d) $\frac{87}{10}$

9 Fill in the missing numbers.

a) $\frac{11}{\square} = 2\frac{3}{\square}$

c) $\frac{22}{\square} = 4\frac{2}{\square}$

b) $\frac{19}{3} = \square\frac{\square}{3}$

d) $\frac{37}{5} = \square\frac{\square}{10}$

10 Complete the statement.

$$5\frac{1}{4} = 4\frac{\square}{4} = 3\frac{\square}{4} = 2\frac{\square}{4} = 1\frac{\square}{4} = \frac{\square}{4}$$

What did you notice? Why did this happen?