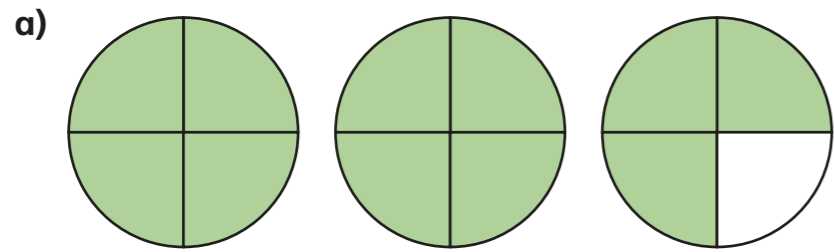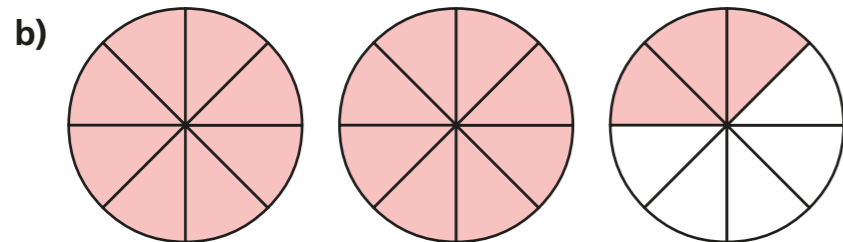# Mixed numbers to improper fractions

1 Convert the mixed numbers to improper fractions.

a)

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

b)

$$2\frac{3}{8} = \frac{19}{8}$$

c)

$$3\frac{3}{8} = \frac{27}{8}$$

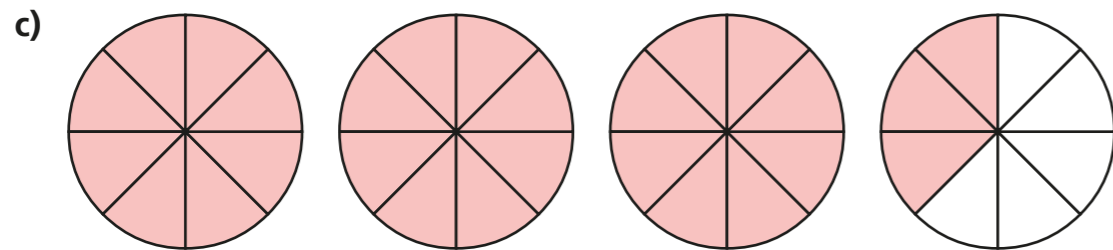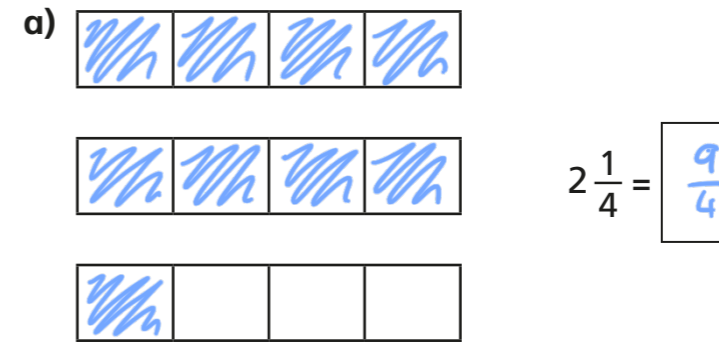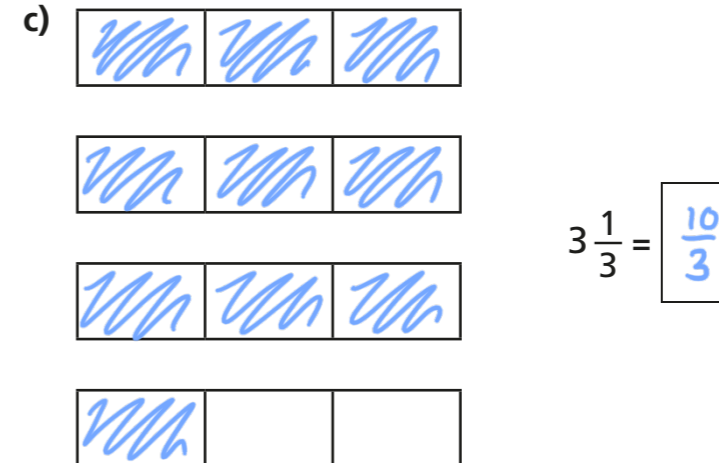**2** Convert the mixed numbers to improper fractions.

Colour the bar models to help you.

a)

$$2\frac{1}{4} = \frac{9}{4}$$

b)

$$2\frac{1}{3} = \frac{7}{3}$$

c)

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

d)

$$3\frac{2}{5} = \frac{17}{5}$$

3 Convert the mixed numbers to improper fractions.

Write the next conversion in each part.

a) $2\dfrac{1}{7} = \boxed{\dfrac{15}{7}}$

$2\dfrac{2}{7} = \boxed{\dfrac{16}{7}}$

$2\dfrac{3}{7} = \boxed{\dfrac{17}{7}}$

$\boxed{2\dfrac{4}{7}} = \boxed{\dfrac{18}{7}}$

b) $3\dfrac{1}{5} = \boxed{\dfrac{16}{5}}$

$4\dfrac{1}{5} = \boxed{\dfrac{21}{5}}$

$5\dfrac{1}{5} = \boxed{\dfrac{26}{5}}$

$\boxed{6\dfrac{1}{5}} = \boxed{\dfrac{31}{5}}$

c) $5\dfrac{1}{2} = \boxed{\dfrac{11}{2}}$

$5\dfrac{1}{4} = \boxed{\dfrac{21}{4}}$

$5\dfrac{1}{8} = \boxed{\dfrac{41}{4}}$

$\boxed{5\dfrac{1}{16}} = \boxed{\dfrac{81}{4}}$

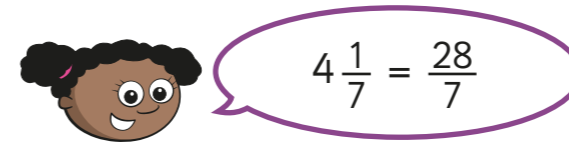Talk to a partner about any patterns you spot.

4 Here are 4 whole pizzas and $\dfrac{3}{5}$ of a pizza.
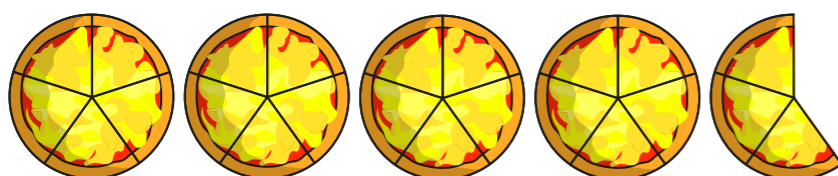
How many children can have $\dfrac{1}{5}$ of a pizza?

5 Whitney is converting mixed numbers to improper fractions.

$$4\dfrac{1}{7} = \dfrac{28}{7}$$

Do you agree with Whitney? __No__

Explain your answer.

She has converted 4 wholes to $\dfrac{28}{7}$ but forgotten to add the extra seventh.

6

$$\bigcirc\,\dfrac{3}{5} = \dfrac{\triangle}{5}$$

The table shows some possible values of the circle.

Use this to find the corresponding value of the triangle.

⬤	🔺
1	8
2	13
4	23
8	43
16	83
17	88
100	803

23