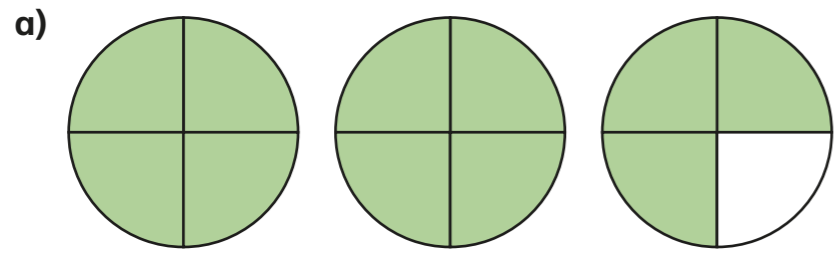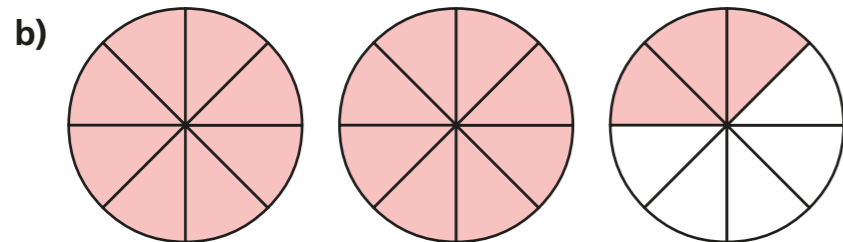# Mixed numbers to improper fractions

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)

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

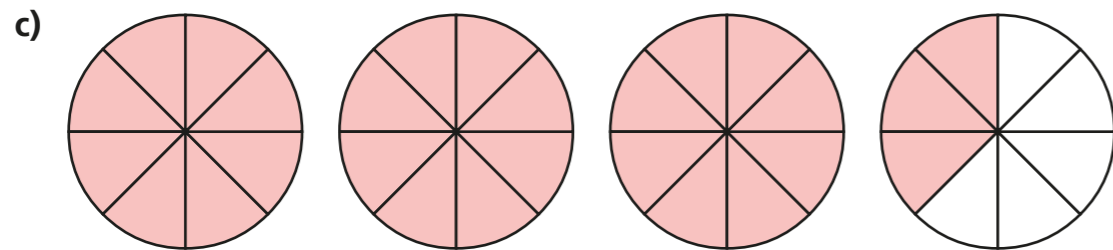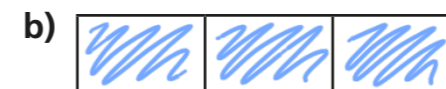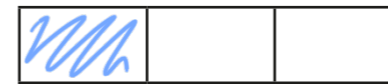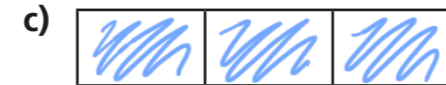**2** Convert the mixed numbers to improper fractions.
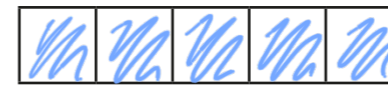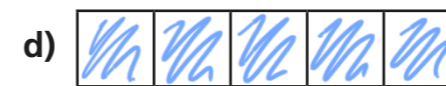
Colour the bar models to help you.

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) $2\frac{1}{7} = \boxed{\frac{15}{7}}$

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

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

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

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

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

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

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

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

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

$5\frac{1}{8} = \boxed{\frac{41}{8}}$

$\boxed{5\frac{1}{16}} = \boxed{\frac{81}{16}}$

Talk to a partner about any patterns you spot.

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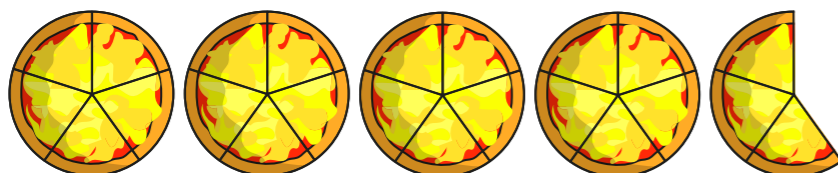
How many children can have $\frac{1}{5}$ of a pizza?

5 Whitney is converting mixed numbers to improper fractions.

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

Do you agree with Whitney? __No__

Explain your answer.

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

6

$\bigcirc\frac{3}{5} = \frac{\triangle}{5}$

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
160	803