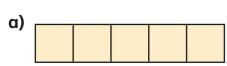
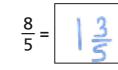
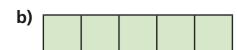
Improper to mixed numbers

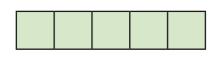


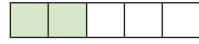
1 Convert the improper fractions to mixed numbers.

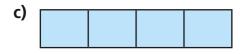


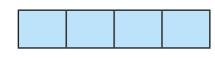




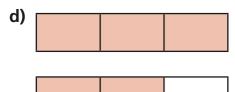












$$\frac{5}{3}$$
 = $2\frac{2}{3}$

2 Shade the bar models to represent each improper fraction. Convert the improper fractions to mixed numbers.





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

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

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

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

- 3 Convert the improper fractions to mixed numbers.
 - a) $\frac{10}{2} = 5$

e) $\frac{12}{5} = 2\frac{2}{5}$

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

f) $\frac{13}{6} = 2 \frac{1}{6}$

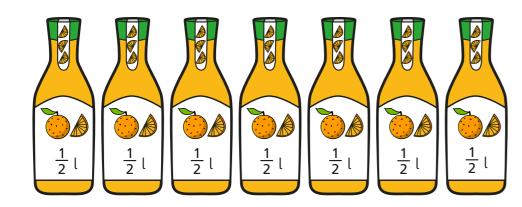
c) $\frac{10}{4} = 2\frac{1}{2}$

g) $\frac{13}{7} = \frac{6}{7}$

d) $\frac{10}{5} = 2$

- h) $\frac{31}{8} = 3\frac{7}{6}$
- Eva has 7 bottles of juice.

Each bottle contains half a litre of juice.



How many litres of juice does Eva have altogether?

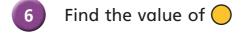
Write your answer as a mixed number.

5 Dexter is converting improper fractions.



Explain why Dexter is incorrect.





$$\frac{27}{\bigcirc} = \bigcirc \frac{2}{\bigcirc}$$

7 Find two possible values for \bigstar and \blacktriangle

$$\frac{30}{\bigstar} = \Delta \frac{2}{\bigstar}$$

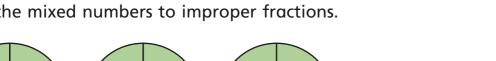


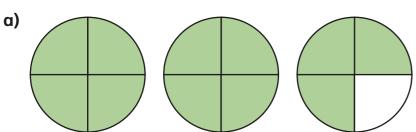
Mixed numbers to improper fractions



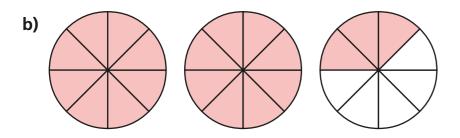


Convert the mixed numbers to improper fractions.

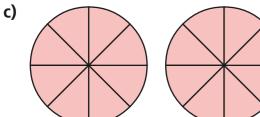


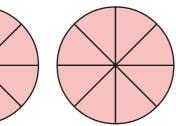


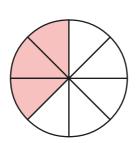
$$2\frac{3}{4} = \frac{11}{4}$$



$$2\frac{3}{8} = \frac{9}{8}$$







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

Convert the mixed numbers to improper fractions.

Colour the bar models to help you.

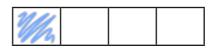




 $2\frac{1}{3} = \boxed{\frac{3}{3}}$

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

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





3 Convert the mixed numbers to improper fractions.

Write the next conversion in each part.

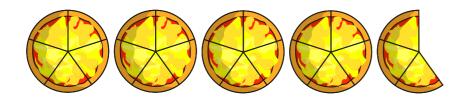
- a) $2\frac{1}{7} = \frac{15}{7}$
 - $2\frac{2}{7} = \boxed{\frac{16}{7}}$
 - $2\frac{3}{7} = \boxed{\frac{13}{7}}$
 - 2 4 = 18

- c) $5\frac{1}{2} = \frac{1}{2}$
 - $5\frac{1}{4} = \boxed{\frac{21}{4}}$
 - $5\frac{1}{8} = \boxed{\frac{41}{4}}$
 - 5 16 = 81

- b) $3\frac{1}{5} = \frac{16}{5}$
 - $4\frac{1}{5} = \boxed{\frac{21}{5}}$
 - $5\frac{1}{5} = \boxed{\frac{26}{5}}$
 - $6\frac{1}{5} = \frac{31}{5}$

Talk to a partner about any patterns you spot.

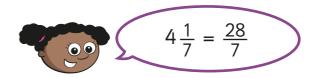
4 Here are 4 whole pizzas and $\frac{3}{5}$ of a pizza.



How many children can have $\frac{1}{5}$ of a pizza?





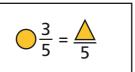


Do you agree with Whitney? ________
Explain your answer.

She has converted 4 wholes to $\frac{28}{7}$ but

Cargotten to add the extra seventh.

6



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
13	88
160	803