Add fractions

White Rose MATHS

1 Complete the additions.

Use the bar models to help you.

a)

$\frac{1}{3} + \frac{1}{3} = \square$

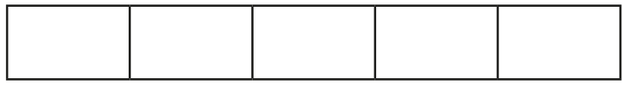
b)

$\frac{1}{5} + \frac{1}{5} = \square$

c)

$\frac{1}{5} + \frac{2}{5} = \square$

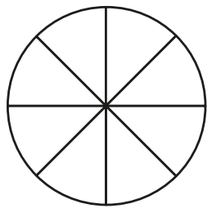
d)



$\frac{1}{5} + \frac{3}{5} = \square$

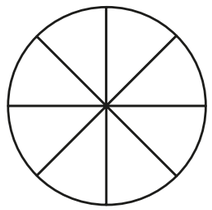
2 Shade the circles and complete the additions.

a)



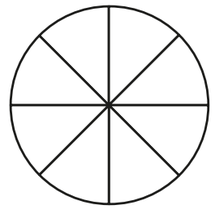
$\frac{1}{8} + \frac{3}{8} = \square$

b)



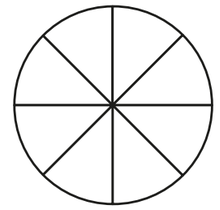
$\frac{5}{8} + \frac{1}{8} = \square$

c)



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

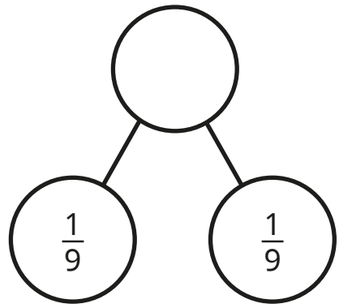
d)



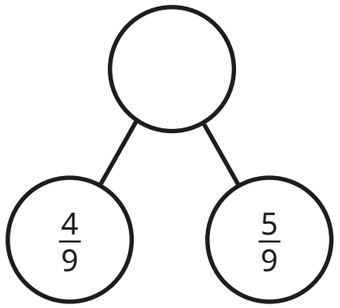
$\frac{5}{8} + \frac{3}{8} = \square$

3 Complete the part-whole models.

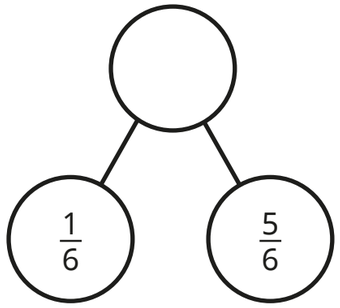
a)



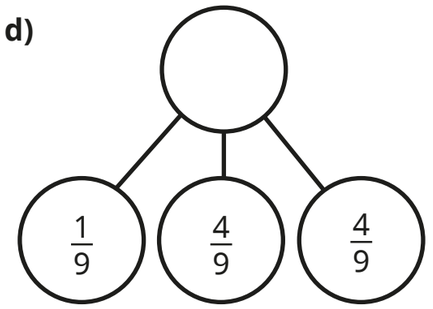
b)



c)



d)



Which part-whole model is the odd one out? _____

Talk about your choice with a partner.

Did they choose the same odd one out?

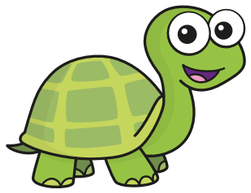
4 Alex and Huan are eating a cake.

Alex eats $\frac{4}{7}$ of the cake.

Huan eats $\frac{2}{7}$ of the cake.

What fraction of the cake have they eaten altogether?

5 Tiny is adding fractions.



$$\frac{1}{4} + \frac{2}{4} = \frac{3}{8}$$

a) Draw a bar model to show that Tiny is wrong.

b) Complete the addition.

$$\frac{1}{4} + \frac{2}{4} = \square$$

6 Annie has baked 12 muffins.

She puts them into 2 boxes.

What fraction of the muffins could she put into each box?

Complete the table to show different possibilities.

One has been done for you.

Box 1	Box 2
$\frac{1}{12}$	$\frac{11}{12}$

Are there any other possibilities? Talk about it with a partner.

7 Complete the additions.

a) $\frac{3}{8} + \frac{4}{8} = \square$

b) $\frac{3}{9} + \frac{4}{9} = \square$

c) $\frac{3}{29} + \frac{4}{29} = \square$

d) $\frac{3}{103} + \frac{4}{103} = \square$

e) $\frac{5}{31} + \frac{9}{31} = \square$

f) $\frac{17}{111} + \frac{33}{111} = \square$