Add 3 or more fractions

1 Complete the additions.

Use the bar models to help you.

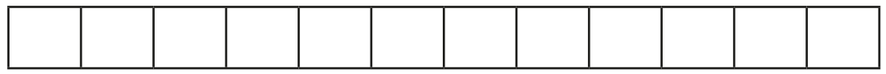
a)

$\frac{1}{2} + \frac{1}{4} + \frac{1}{12} = \square$

b)

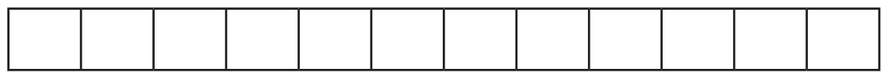
$\frac{1}{2} + \frac{1}{3} + \frac{1}{12} = \square$

c)



$\frac{2}{3} + \frac{1}{6} + \frac{1}{12} = \square$

d)



$\frac{1}{3} + \frac{1}{4} + \frac{1}{6} = \square$

2 Complete the additions.

a) $\frac{1}{5} + \frac{3}{10} + \frac{7}{20} = \square$

b) $\frac{1}{16} + \frac{5}{32} + \frac{3}{8} = \square$

c) $\frac{1}{4} + \frac{5}{24} + \frac{5}{12} = \square$

d) $\frac{3}{16} + \frac{1}{2} + \frac{1}{4} = \square$

e) $\frac{1}{2} + \frac{5}{18} + \frac{1}{9} = \square$

f) $\frac{1}{5} + \frac{8}{35} + \frac{2}{7} = \square$

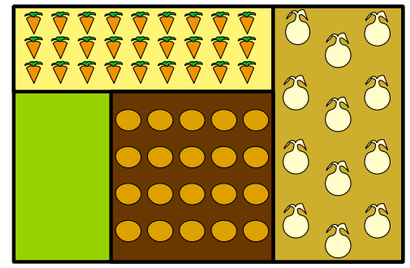
Explain how common multiples help when adding the fractions.

3 Rosie has a vegetable patch.

$\frac{2}{9}$ of the patch contains carrots.

$\frac{5}{18}$ of the patch contains potatoes.

$\frac{1}{3}$ of the patch contains onions.

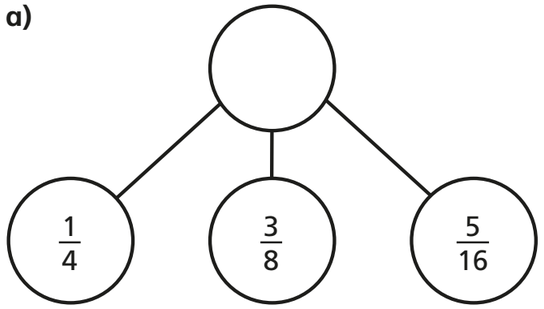


What fraction of the patch contains carrots, potatoes or onions?

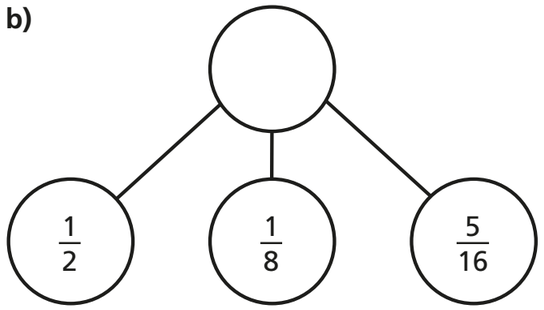
$\square$ of the patch contains carrots, potatoes or onions.

4 Complete the part-whole models.

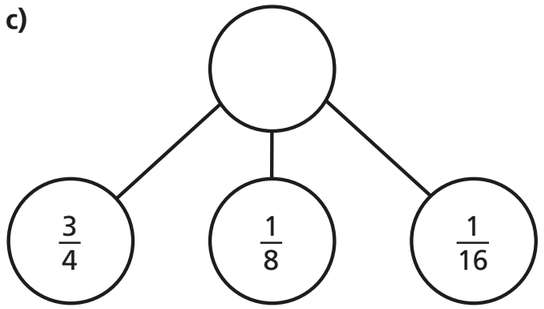
a)



b)



c)



d) Which one of the part-whole models is the odd one out?

Is there more than one answer?

Explain how you know.

5 Fill in the missing numerators.

a) $\frac{1}{8} + \frac{\square}{16} + \frac{3}{8} = \frac{5}{8}$

b) $\frac{1}{8} + \frac{\square}{16} + \frac{3}{8} = \frac{7}{8}$

c) $\frac{1}{4} + \frac{\square}{16} + \frac{3}{8} = \frac{3}{4}$

d) $\frac{1}{8} + \frac{\square}{16} + \frac{1}{4} = \frac{3}{4}$

e) $\frac{1}{8} + \frac{1}{16} + \frac{\square}{16} = \frac{3}{4}$

f) $\frac{1}{4} + \frac{1}{16} + \frac{\square}{16} = \frac{3}{4}$

6 Complete the number square.

The total of each column is $\frac{4}{5}$

The total of each row is $\frac{4}{5}$

$\frac{3}{10}$	$\frac{2}{5}$	
	$\frac{1}{10}$	
$\frac{7}{20}$		

Create your own problem like this for a partner.
