Subtract – breaking the whole

1 Complete the subtractions.

Use bar models to help you.

a) $2\frac{1}{2} - \frac{7}{12} =$ ☐ **b)** $2\frac{1}{3} - \frac{7}{12} =$ ☐ **c)** $2\frac{1}{4} - \frac{7}{12} =$ ☐

2 **a)** Complete the subtractions.

$3\frac{1}{4} - \frac{1}{8} =$ ☐ $3\frac{1}{4} - \frac{3}{8} =$ ☐

$3\frac{1}{4} - \frac{2}{8} =$ ☐ $3\frac{1}{4} - \frac{4}{8} =$ ☐

b) At what point did the answer break the whole? Why?

c) Which calculations will break the whole?

$3\frac{1}{2} - \frac{9}{10}$	$7\frac{3}{4} - \frac{1}{8}$	$6\frac{11}{12} - \frac{2}{3}$	$4\frac{2}{5} - \frac{7}{15}$

3 Complete the subtractions.

a) $3\frac{1}{5} - \frac{7}{15} =$ ☐

b) $3\frac{1}{16} - \frac{5}{8} =$ ☐

c) $4\frac{5}{12} - \frac{5}{6} =$ ☐

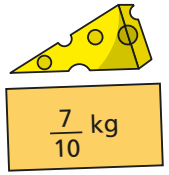
d) $2\frac{1}{6} - \frac{5}{12} =$ ☐

e) $3\frac{2}{9} - \frac{13}{18} =$ ☐

f) $3\frac{4}{9} - \frac{13}{27} =$ ☐

4 Here are some ingredients.

Potatoes



Cheese

Carrots

a) How much more do the carrots weigh than the cheese?

b) Jack uses $\frac{17}{20}$ kg of carrots.

How many kilograms of carrots does he have left?

c) Jack uses all the cheese and the same amount of potatoes.

How much do the leftover potatoes weigh?

5 Eva is doing the long jump.

On her 1st attempt, she jumps $3\frac{2}{9}$ m.

Her 2nd attempt is $\frac{2}{3}$ m shorter than her first.

How far does Eva jump on her 2nd attempt?

6 **a)** The difference between a mixed number and a fraction is $\frac{7}{8}$

The fraction has a denominator of 16

What could the mixed number and the fraction be?

Give two possible answers.

b) Talk to a partner about how you could find more answers.