Subtract from a mixed number – breaking the whole
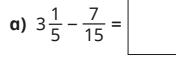
White Rose MATHS

1 Complete the subtractions.

Use the bar models to help you.

a)

$$2\frac{1}{2} - \frac{7}{12} = \boxed{}$$

b)

$$2\frac{1}{3} - \frac{7}{12} = \boxed{}$$

c)

$$2\frac{1}{4} - \frac{7}{12} = \boxed{}$$

2 a) Complete the subtractions.

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

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

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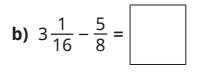
$$3\frac{1}{4} - \frac{4}{8} = \boxed{}$$

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

c) Tick the calculations that will break the whole.

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

3 Complete the subtractions.

a) $3\frac{1}{5} - \frac{7}{15} = \boxed{}$

d) $2\frac{1}{6} - \frac{5}{12} = \boxed{}$

b) $3\frac{1}{16} - \frac{5}{8} = \boxed{}$

e) $3\frac{2}{9} - \frac{13}{18} = \boxed{}$

c) $4\frac{5}{12} - \frac{5}{6} = \boxed{}$

f) $3\frac{4}{9} - \frac{13}{27} = \boxed{}$

4 Here are some ingredients.

$2\frac{1}{2}$ kg — potatoes

$\frac{7}{10}$ kg — cheese

$1\frac{2}{5}$ kg — carrots

a) How much heavier are the carrots than the cheese?

☐ kg

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

How many kilograms of carrots does he have left?

☐ kg

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

What is the mass of the leftover potatoes?

☐ kg

5 Eva is doing the long jump.

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

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

How far does Eva jump on her second attempt?

☐ m

6 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.

☐ and ☐   ☐ and ☐

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

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