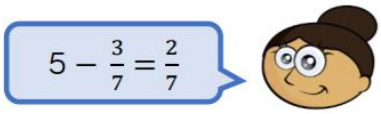
24.02.20201 – ANSWERS Subtract Fractions from Whole Amounts Y4 Challenge Sheet

1. Dora is subtracting a fraction from a whole.



Can you spot her mistake?

What should the answer be?

Dora is incorrect.

She believes that 5 wholes is equivalent to $\frac{7}{7}$ when it is in fact $\frac{35}{7}$.

Therefore, the question is $\frac{35}{7} - \frac{2}{7}$ which gives her the answer $\frac{33}{7}$ or $4\frac{5}{7}$

2. Whitney has a piece of ribbon that is 3 metres long.

She cuts it into 12 equal pieces and gives Teddy 3 pieces.

How many metres of ribbon does Whitney have left?

The starting fraction would be $\frac{12}{4}$ and she gives Teddy $\frac{3}{4}$

Therefore, the question is $\frac{12}{4} - \frac{3}{4}$

Whitney has $\frac{9}{4}$ left which is equivalent to $2\frac{1}{4}$

3. At his birthday party, Barney had 3 cakes each cut into 7 slices. During the party, $\frac{6}{7}$ of a cake was eaten. How much cake was left at the end of the party?

In this instance, 3 cakes = $\frac{21}{7}$

If $\frac{6}{7}$ is given away, this would be $\frac{21}{7} - \frac{6}{7}$

The amount of cake left was $\frac{15}{7}$ or $2\frac{1}{7}$

4. There is an one odd one out in these calculations. Which is the odd one out? Explain why it is different.

$2 - \frac{6}{5}$	$3 - \frac{11}{5}$	$1 - \frac{2}{5}$	$4 - \frac{16}{5}$

The odd one out is the 3rd question.

This is because all of the other calculations equal $\frac{4}{5}$ where as question 3 equals $\frac{3}{5}$

5. **a)** Find the missing fraction to complete the calculation.

$$2 - \frac{\square}{\square} = \frac{10}{12}$$

b) Write your own word problem which would be solved by this calculation.

We know that 2 is equivalent to $\frac{24}{12}$, therefore

The question is $\frac{24}{12} - \frac{10}{12} = \frac{14}{12}$

The missing fraction is $\frac{14}{12}$

An example word problem could be:

David has 2 birthday cakes cut into 12 slices on each cake. At the end of the party, there were 10 slices left. How many slices had been eaten?