

Bronze

$$\begin{array}{r} 1b. \quad 6 . 3 \boxed{6} \\ - \boxed{1} . 2 \\ \hline 5 . 1 \ 6 \end{array}$$

1a. **1.18**

2a. **2.82**

3a. **1.37**

4a. **3.24**

2b. **5.47g**

3b. **Christophe did not complete the subtraction in the hundredths column. The answer should be 3.19.**

Silver

$$\begin{array}{r} 4b. \quad 3 . 4 \boxed{3} \\ - \boxed{1} . \boxed{0} 2 \ 8 \\ \hline 2 . 4 \ 0 \ 2 \end{array}$$

5a. **2.918**

6a. **5.362**

7a. **2.283**

8a. **3.444**

5b. **6.907g**

6b. **Laurie did not complete the subtraction in the thousandths column. The answer should be 3.087.**

Gold

$$\begin{array}{r} 7b. \quad \boxed{3} 3 . 4 \ 7 \ \boxed{4} \\ - 2 \ \boxed{6} . \ \boxed{7} \\ \hline 6 . 7 \ 7 \ 4 \end{array}$$

9a. **10.892**

10a. **28.922**

11a. **8.375**

12a. **49.302**


8b. **9.514g**

9b. **Alia has not exchanged when subtracting the tenths and ones columns. She has subtracted the top number from the bottom number instead. The answer should be 6.972.**

## Challenge

1. Rachael is baking a cake, but her recipe has some jam covering some of the ingredients!

<u>Ingredients</u>	<u>Weight</u>
Plain flour	2.75kg
Self-raising flour	2.89kg
6 eggs	40g each
Jam	
Sugar	
Margarine	



Rachael knows that the total weight of the ingredients is 8.74kg. Explain how she could use this to find the weight of the missing ingredients.

Rachael could subtract the weight of the ingredients that she can already see from the total weight.  $8.74\text{kg} - 5.88\text{kg} = 2.86\text{kg}$ , so she needs 2.86kg to complete the recipe.

Find possible values for the weight of jam, sugar and margarine.

Various possible answers, for example: 0.58kg jam, 0.65kg sugar and 1.63kg margarine

DP

2. The images below show the average speed of each car in a race in miles per hour.

The cars in third and fourth place travelled at average speeds of more than 185mph, but had a slower average speed than the runner up.

The difference in average speed between the cars in first and second place is less than the difference in speed between the third and fourth place cars.

What are the different possibilities for the average speed for the third and fourth place cars?



The difference in speed between third and fourth place must be greater than 4.57mph ( $201.99\text{mph} - 197.42\text{mph}$ ). Children may find various combinations for third and fourth place, for example: 193.86mph and 187.01mph.

DP