

Reasoning and Problem Solving

Step 8: Subtracting – Different Decimal Places

National Curriculum Objectives:

Mathematics Year 5: (5F10) [Solve problems involving number up to three decimal places](#)
Mathematics Year 5: (5M9a) [Use all four operations to solve problems involving measure \[for example, length, mass, volume, money\] using decimal notation, including scaling](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use the digit cards to complete a subtraction calculation (using ones, tenths and hundredths); no exchanges.

Expected Use the digit cards to complete a subtraction calculation (using ones, tenths, hundredths and thousandths); single exchanges.

Greater Depth Use the digit cards to complete a subtraction calculation (using tens, ones, tenths, hundredths and thousandths); multiple exchanges.

Questions 2, 5 and 8 (Problem Solving)

Developing Identify the leftover weight or capacity using subtraction (ones, tenths and hundredths); no exchanges.

Expected Identify the leftover weight or capacity using subtraction (ones, tenths, hundredths and thousandths); single exchanges.

Greater Depth Identify the leftover weight or capacity using subtraction (tens, ones, tenths, hundredths and thousandths); multiple exchanges.

Questions 3, 6 and 9 (Reasoning)

Developing Explain the error in a subtraction number sentence (using ones, tenths and hundredths); no exchanges.

Expected Explain the error in a subtraction number sentence (using ones, tenths, hundredths and thousandths); single exchanges.

Greater Depth Explain the error in a subtraction number sentence (using tens, ones, tenths, hundredths and thousandths); multiple exchanges.

More [Year 5 Decimals](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Subtracting – Different Decimal Places

1a. Use the digit cards to complete the subtraction calculation.



$$\begin{array}{r} \square . \square 5 \\ - 1 . 2 \\ \hline 1 . 4 5 \end{array}$$



PS

Subtracting – Different Decimal Places

1b. Use the digit cards to complete the subtraction calculation.



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



PS

2a. There was 8.65L of orange juice.

Jonas drank 2.4L of it.

Circle the amount left over.

6.2L

5.5L

7.25L

6.25L



PS

2b. There was 9.97g of sugar in a pot.

Keira used 4.5g in her cup of tea.

Circle the amount left over.

4.5g

4.57g

5.47g

5.4g



PS

3a. Mijin says,



$3.45 - 2.3 = 1.25$

Explain her mistake.



R

3b. Christophe says,



$8.39 - 5.2 = 3.1$

Explain his mistake.



R

Subtracting – Different Decimal Places

4a. Use the digit cards to complete the subtraction calculation.



$$\begin{array}{r}
 5 . \square 7 2 \\
 - \square . \square 2 \\
 \hline
 3 . 9 5 2
 \end{array}$$



PS

Subtracting – Different Decimal Places

4b. Use the digit cards to complete the subtraction calculation.



$$\begin{array}{r}
 3 . 4 \square \\
 - \square . \square 2 8 \\
 \hline
 2 . 4 0 2
 \end{array}$$

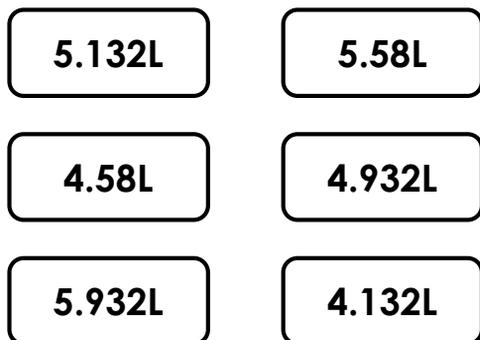


PS

5a. There was 9.652L of water in a cooler.

Jess drank 4.72L at the weekend.

Circle the amount left over.

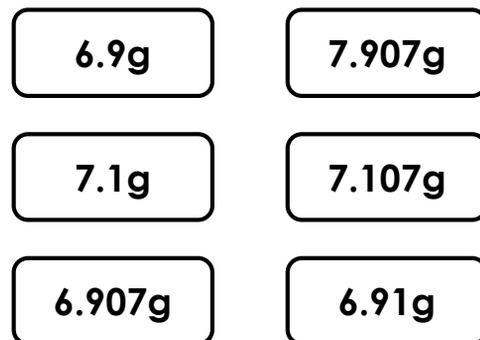


PS

5b. There was 8.657g of salt in a shaker.

Dan added 1.75g of it to his pasta sauce.

Circle the amount left over.



PS

6a. Dennis says,



Explain his mistake.



R

6b. Laurie says,



Explain her mistake.



R

Subtracting – Different Decimal Places

7a. Use the digit cards to complete the subtraction calculation.



$$\begin{array}{r}
 21.4\boxed{} \\
 - 1\boxed{}.\boxed{}2\boxed{} \\
 \hline
 2.459
 \end{array}$$



PS

Subtracting – Different Decimal Places

7b. Use the digit cards to complete the subtraction calculation.



$$\begin{array}{r}
 \boxed{}3.47\boxed{} \\
 - 2\boxed{}.\boxed{} \\
 \hline
 6.774
 \end{array}$$



PS

8a. There was 12.914L of milk in a fridge.

Holly used 5.39L of it at her café.

Circle the amount left over.

7.875L	7.605L
6.524L	6.705L
6.875L	7.524L



PS

8b. There was 17.804g of butter in a pack.

Mark used 8.29g on his toast.

Circle the amount left over.

9.775g	8.595g
9.595g	8.514g
9.514g	8.775g



PS

9a. Esteban says,



17.227 – 3.84 = 14.143

Explain his mistake.



R

9b. Alia says,



16.012 – 9.04 = 13.032

Explain her mistake.



R

Reasoning and Problem Solving Subtracting – Different Decimal Places

Developing

1a.
$$\begin{array}{r} \boxed{2} . \boxed{6} 5 \\ - 1 . 2 \\ \hline 1 . 4 5 \end{array}$$

2a. **6.25L**

3a. **Mijin made a subtraction error in the tenths column. The answer should be 1.15.**

Expected

4a.
$$\begin{array}{r} 5 . \boxed{4} 7 2 \\ - \boxed{1} . \boxed{5} 2 \\ \hline 3 . 9 5 2 \end{array}$$

5a. **4.932L**

6a. **Dennis has placed his numbers in the wrong order. The correct number sentence should be $3.295 - 2.98 = 0.315$.**

Greater Depth

7a.
$$\begin{array}{r} 2 1 . 4 \boxed{8} \\ - 1 \boxed{9} . \boxed{0} 2 \boxed{1} \\ \hline 2 . 4 5 9 \end{array}$$

8a. **7.524L**

9a. **Esteban has not lined up his numbers in the columns correctly and has completed the calculation $17.227 - 3.084$. The answer should be 13.87.**

Reasoning and Problem Solving Subtracting – Different Decimal Places

Developing

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

2b. **5.47g**

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

Expected

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

5b. **6.907g**

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

Greater Depth

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

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.**