

Homework/Extension

Step 4: Add and Subtract Mass

National Curriculum Objectives:

Mathematics Year 3: (3M1b) [Compare mass \(kg/g\)](#)

Mathematics Year 3: (3M2b) [Measure mass \(kg/g\)](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the calculation to the correct weight on the scales when adding and subtracting masses of 2 items, using various representations. Measures given in both kg and g, with no conversions or exchanges within questions; multiples of 100.

Expected Match the calculation to the correct weight on the scales when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g, with some exchanging and crossing tens; multiples of 5 where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

Greater Depth Match the calculation to the correct weight on the scales when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g of any number, with exchanging and crossing tens where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

Questions 2, 5 and 8 (Varied Fluency)

Developing Solve the calculations to find the odd one out when adding and subtracting masses of 2 items, using various representations. Measures given in both kg and g, with no conversions or exchanges within questions; multiples of 100.

Expected Solve the calculations to find the odd one out when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g, with some exchanging and crossing tens; multiples of 5 where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

Greater Depth Solve the calculations to find the odd one out when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g of any number, with exchanging and crossing tens where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Find possible items for a given weight when adding and subtracting masses of 2 items, using various representations. Measures given in both kg and g, with no conversions or exchanges within questions; multiples of 100.

Expected Find possible items for a given weight when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g, with some exchanging and crossing tens; multiples of 5 where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

Greater Depth Find possible items for a given weight when adding and subtracting masses of up to 3 items, using various representations. Measures given in both kg and g of any number, with exchanging and crossing tens where some measures are represented as fractions ie $2\frac{1}{2}$ kg.

More [Year 3 Mass and Capacity](#) resources.

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

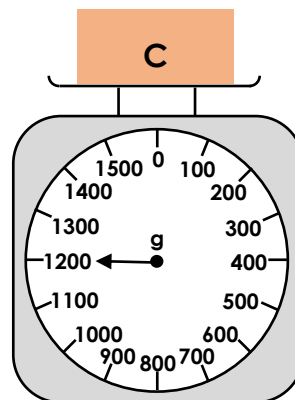
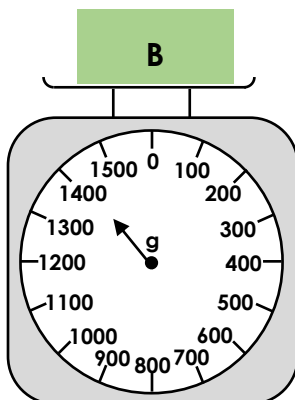
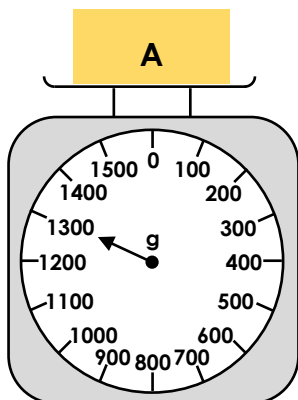
Add and Subtract Mass

1. Solve the calculations and match the answer to the weights shown on the scales.

1. $1\text{kg and } 200\text{g} + 200\text{g}$

2. $1\text{kg and } 800\text{g} - 500\text{g}$

3. $1\text{kg and } 900\text{g} - 700\text{g}$



VF
HW/Ext

2. Complete the calculations below to find the odd one out.

A. $1\text{kg and } 100\text{g} + 400\text{g} =$

B. $1\text{kg and } 900\text{g} - 400\text{g} =$

C. $1\text{kg} + 600\text{g} =$

D. $1\text{kg and } 300\text{g} + 200\text{g} =$

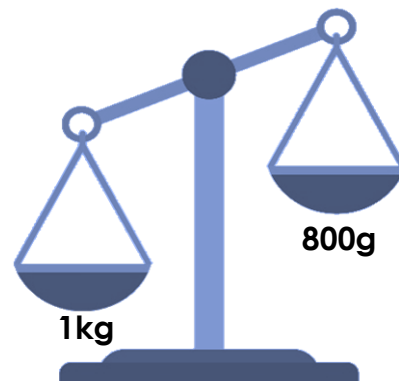
E. $1\text{kg} + 500\text{g} =$



VF
HW/Ext

3. Hafsa is weighing different fruits. She can add up to two items on each side of the scales. Which items could she use to make the scales correct?

				
melon	coconut	pear	potatoes	pineapple
1kg	600g	200g	400g	800g



Identify all possibilities.



RPS
HW/Ext

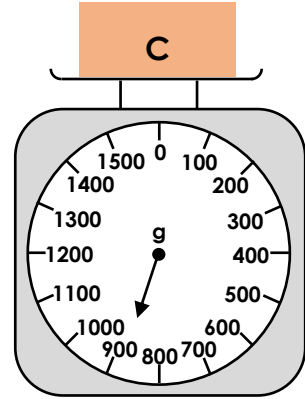
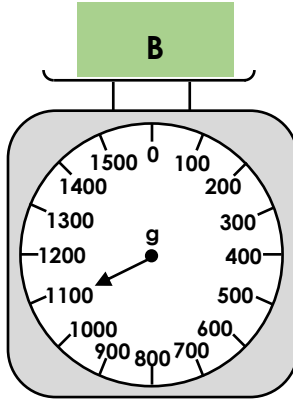
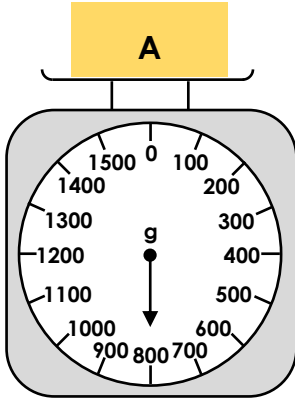
Add and Subtract Mass

4. Solve the calculations and match the answer to the weights shown on the scales.

1. $870\text{g} + 230\text{g}$

2. $1\text{kg and } 420\text{g} - 520\text{g}$

3. $1\text{kg } 50\text{g} - \frac{1}{4}\text{ kg}$



VF
HW/Ext

5. Complete the calculations below to find the odd one out.

A. $1\text{kg and } 250\text{g} + 450\text{g} + 230\text{g} =$

B. $2\text{kg and } 450\text{g} - 520\text{g} =$

C. $1\frac{1}{4}\text{ kg} + 680\text{g} =$

D. $720\text{g} + \frac{1}{2}\text{ kg} =$

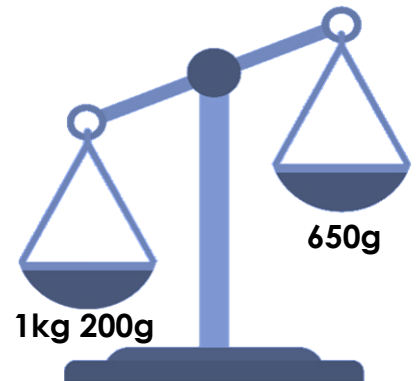
E. $2\frac{1}{2}\text{ kg} - 570\text{g} =$



VF
HW/Ext

6. Steph is weighing different fruits. She can add up to three items on each side of the scales. Which items could she use to make the scales correct?

				
pumpkin	pear	orange	pineapple	melon
950g	150g	100g	550g	650g



Identify all possibilities.



RPS
HW/Ext

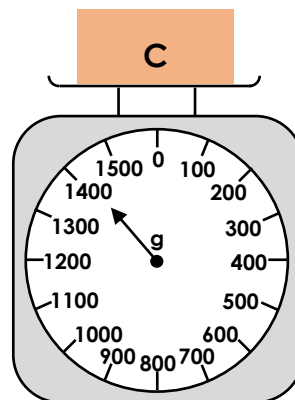
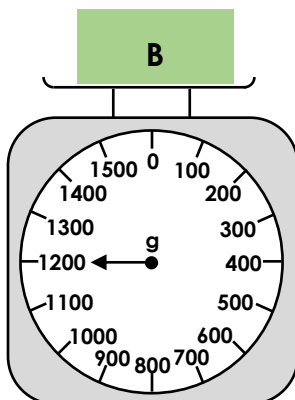
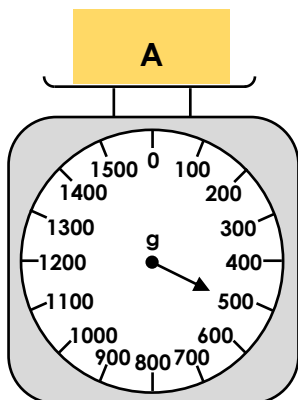
Add and Subtract Mass

7. Solve the calculations and match the answer to the weights shown on the scales.

1. $870\text{g} + 228\text{g} + 102\text{g}$

2. $1\text{kg and } 127\text{g} + 273\text{g}$

3. $\frac{3}{4}\text{ kg} - 123\text{g} - 127\text{g}$



VF
HW/Ext

8. Complete the calculations below to find the odd one out.

A. $1\text{kg and } 217\text{g} + 53\text{g} + 30\text{g} =$

B. $1\text{kg and } 64\text{g} + 106\text{g} + 130\text{g} =$

C. $1\frac{3}{4}\text{ kg} - 450\text{g} =$

D. $800\text{g} + \frac{1}{2}\text{ kg} =$

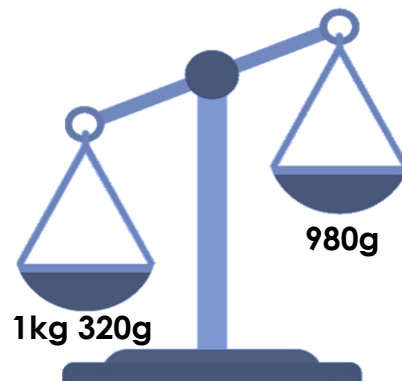
E. $1\text{kg and } 742\text{g} - 340 - 101\text{g} =$



VF
HW/Ext

9. Chuan is weighing different fruits. He can add up to three items on each side of the scales. Which items could he use to make the scales correct?

				
melon	pineapple	aubergine	potatoes	bananas
853g	905g	127g	415g	75g



Identify all possibilities.



RPS
HW/Ext

Homework/Extension

Add and Subtract Mass

Developing

1. B; 2. A; 3. C
2. A = 1kg and 500g; B = 1kg and 500g; C = 1kg and 600g; D = 1kg and 500g; E = 1kg and 500g. C is the odd one out.
3. Various possible answers. Accept any combinations of the following: 800g = a pineapple; two potatoes; a coconut and a pear. 1kg = a melon; a coconut and a potato; a pineapple and a pear.

Expected

4. 1. B; 2. C; 3. A
5. A = 1kg and 930g; B = 1kg and 930g; C = 1kg and 930g; D = 1kg and 220g; E = 1kg and 930g. D is the odd one out.
6. Various possible answers. Accept any combinations of the following: 650g = a melon; a pineapple and an orange. 1 kg and 200g = a pumpkin, a pear and an orange; a melon and a pineapple.

Greater Depth

7. 1. B; 2. C; 3. A
8. A = 1kg and 300g; B = 1kg and 300g; C = 1kg and 300g; D = 1kg and 300g; E = 1kg and 301g. E is the odd one out.
9. Various possible answers. Accept any combinations of the following: 980g = melon and aubergine; pineapple and bananas. 1kg and 320g = pineapple and potatoes.