

Discussion Problems

Step 1: Measure Mass 1

National Curriculum Objectives:

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

About this resource:

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

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

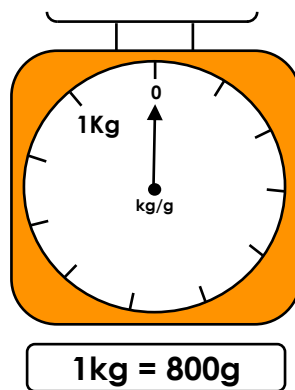
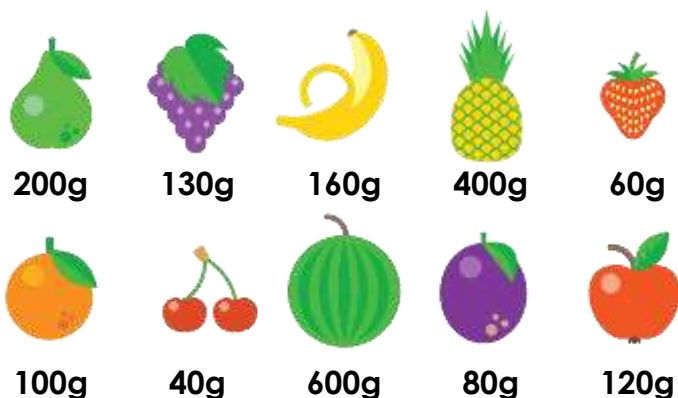
Did you like this resource? Don't forget to [review](#) it on our website.

Measure Mass 1

1. Charlie is weighing some fruit on Plant Zorb, where 1kg is equivalent to 800g.

Which of the fruits below could he weigh so that the arrow is pointing directly to an increment line?

Which fruits could be combined so that the arrow is pointing directly to an increment line?



DP

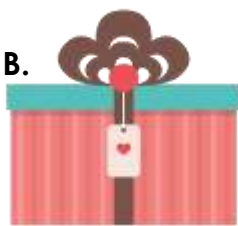
2. Combine any number of objects to make the mass shown on each set of scales. Investigate how many ways you could combine the parcels to fit the scales. You can use each mass as many times as you wish.

A.



150g

B.



500g

C.



300g

D.

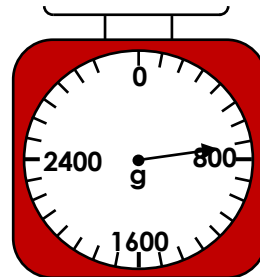
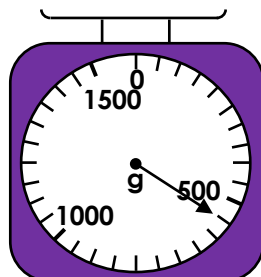
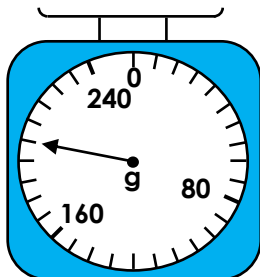


50g

E.



100g



DP

Measure Mass 1

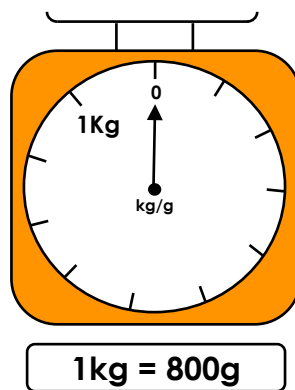
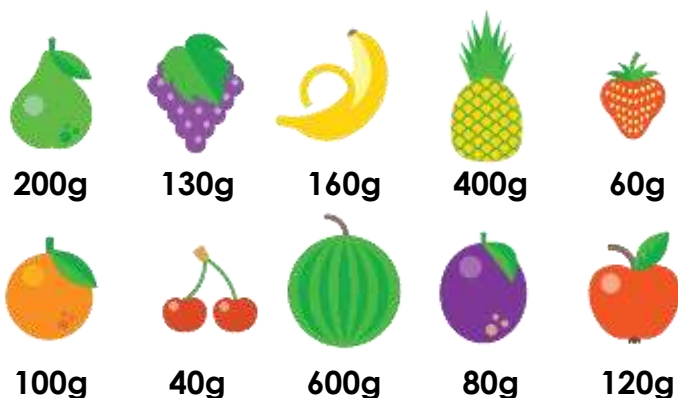
1. Charlie is weighing some fruit on Plant Zorb, where 1kg is equivalent to 800g.

Which of the fruits below could he weigh so that the arrow is pointing directly to an increment line?

The pineapple, plum and the banana.

Which fruits could be combined so that the arrow is pointing directly to an increment line?

Various possible answers, for example: 2 apples; orange and strawberry; melon and apple.



2. Combine any number of objects to make the mass shown on each set of scales. Investigate how many ways you could combine the parcels to fit the scales. You can use each mass as many times as you wish.

Various possible answers, for example: Scale 1 (E + E); Scale 2 (C + A + D + D); Scale 3 (B + A + D)

