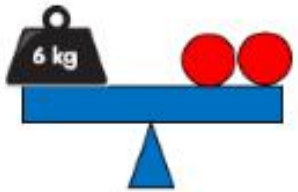
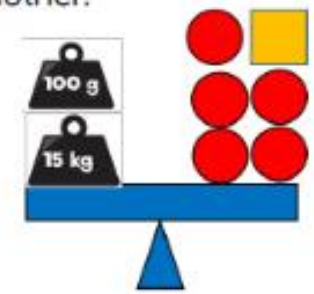
Mass challenge

Here is a balance.



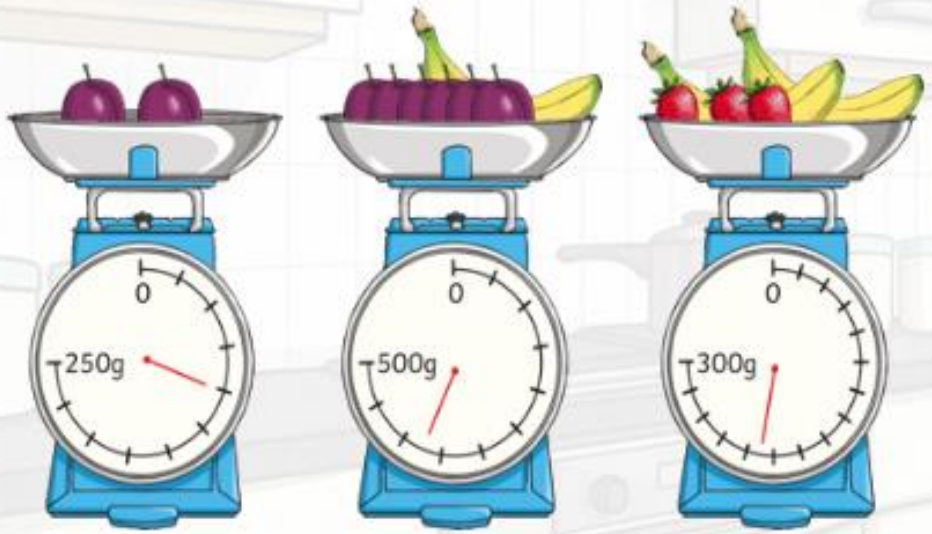
Here is another.



Work out the value of

Can you create your own version for a partner?

Use the information shown to work out the mass of each item.



1 plum = 1 banana = 1 strawberry =

The chocolate bar weighs 100 g.
How much does one muffin weigh?

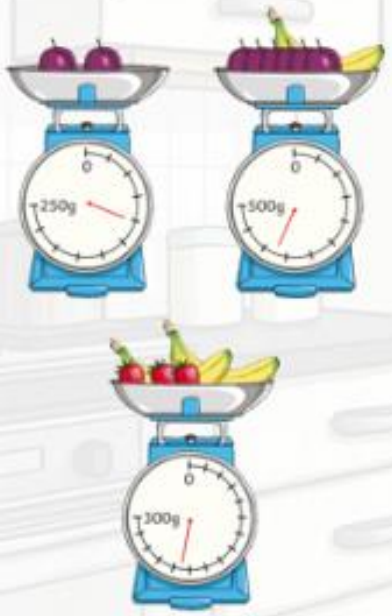
How much does each side weigh?

Answers on the next page.

Answers

One circle weighs 3 kg
The square weighs 100 g.

Children could use a bar model to work this out. They would see the chocolate bar must weigh the same as two muffins so one muffin must weigh 50 g.
Each side weighs 150 g.

Use the information shown to work out the mass of each item.

1 plum	2 plums = 100g. 100 ÷ 2 = 50. One plum has a mass of 50g.
1 banana	6 plums + 1 banana = 375g. 6 plums = 6 × 50 = 300g. 375 - 300 = 75. One banana has a mass of 75g.
1 strawberry	2 bananas and 3 strawberries = 210g. 2 bananas = 2 × 75 = 150g. 210 - 150 = 60. One strawberry has a mass of 20g.