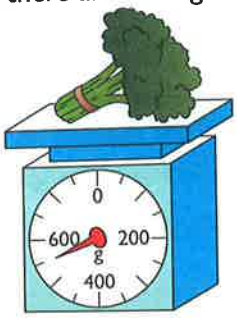
Measuring and Comparing Mass

The mass of an object tells you how heavy it is. The units of mass are grams (g) and kilograms (kg) — remember that there are 1000 g in 1 kg.

Examples

Find the mass of this piece of broccoli.



The small gaps on these scales show 50 g.

The mass of the broccoli is **550 g**.

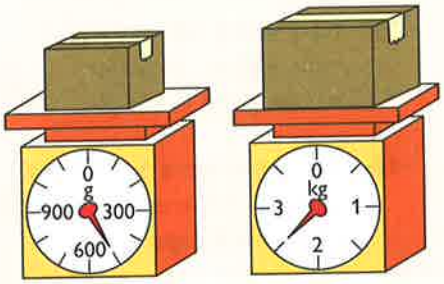
Which mass is heavier, 5000 g or 7 kg?

5000 g = 5 kg ← There are 1000 g in 1 kg.

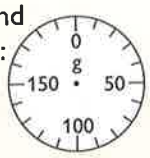
So **7 kg** is heavier.

Set A

1. How heavy are the boxes on these scales?



Copy this scale and draw an arrow at:



2. 80 g
3. 170 g

Find the missing numbers:

4. 1 kg = ☐ g
   So 6 kg = ☐ g
5. 1000 g = ☐ kg
   So 8000 g = ☐ kg

Which is heavier:

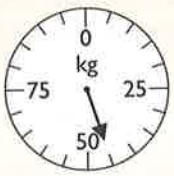
6. 50 g or 50 kg?
7. 600 g or 6 kg?
8. 3000 g or 2 kg?

Put these masses in order, starting with the lightest:

9. 255 g 205 g 250 g
10. 5 kg 5400 g 4800 g

Set B

1. This scale shows how much Pedro weighs. How much does he weigh?



2. Mo weighs 65 kg. Tim weighs 80 kg. Copy the scale and draw arrows to show how much they weigh.

Write these in kg:

3. 6000 g
4. 9000 g

Write these in grams:

5. $\frac{1}{2}$ kg
6. 1 kg 400 g
7. 2 kg 700 g

Which mass is lighter:

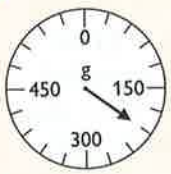
8. 4000 g or 5 kg?
9. 8 kg 200 g or 8500 g?
10. 3 kg 200 g or 3050 g?
11. Put these weights in order, starting with the heaviest:



Set C

Sasha weighs some ingredients. How much of each ingredient does she have?

1. cream cheese



2. caster sugar



3. She also has 140 g of biscuits and 155 g of butter. Put all four masses in order, starting with the heaviest.

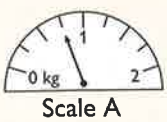
Write these in grams:

4. $\frac{1}{4}$ kg
5. 3 kg 420 g
6. 6 kg 82 g

Which symbol (< or >) should go in each box?

7. 4920 g ☐ 4 kg 800 g
8. 3 kg 20 g ☐ 3100 g
9. 9 kg 400 g ☐ $9\frac{1}{2}$ kg

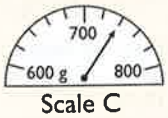
10. Put these scales in order, starting with the scale showing the lightest weight.



Scale A



Scale B



Scale C



Scale D

I can measure and compare mass.



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