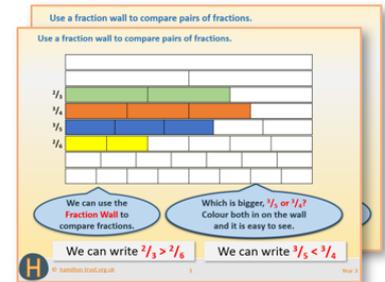


Week 13, Day 4

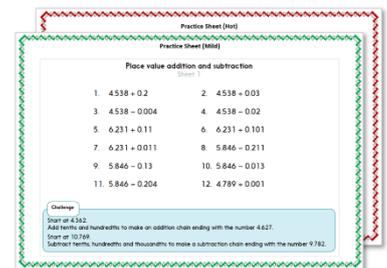
Convert from kilograms to grams and vice versa

Each day covers one maths topic. It should take you about 1 hour or just a little more.

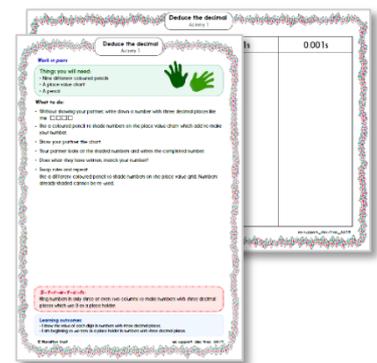
1. Start by carefully reading through the **Learning Reminders**.



2. Tackle the questions on the **Practice Sheet**. There might be a choice of either **Mild** (easier) or **Hot** (harder)! Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?**



4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

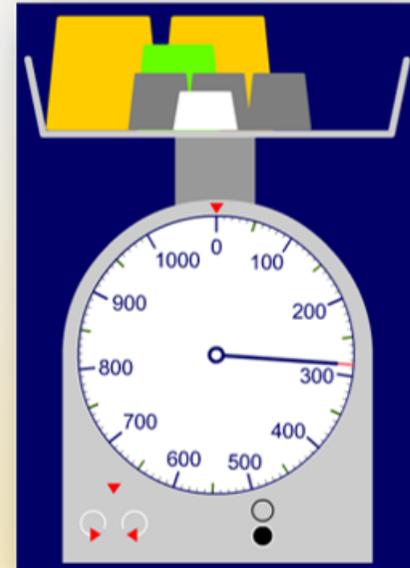
Learning Reminders

Weigh in kilograms/grams; Convert from kilograms to grams and vice versa.

We use grams and kilograms to measure mass/weight.

$$1000\text{g} = 1\text{kg}$$

Look for the mass/weight on some packages to get an idea of what different things weigh.
If you have a set of scales, you can weigh some things to check...

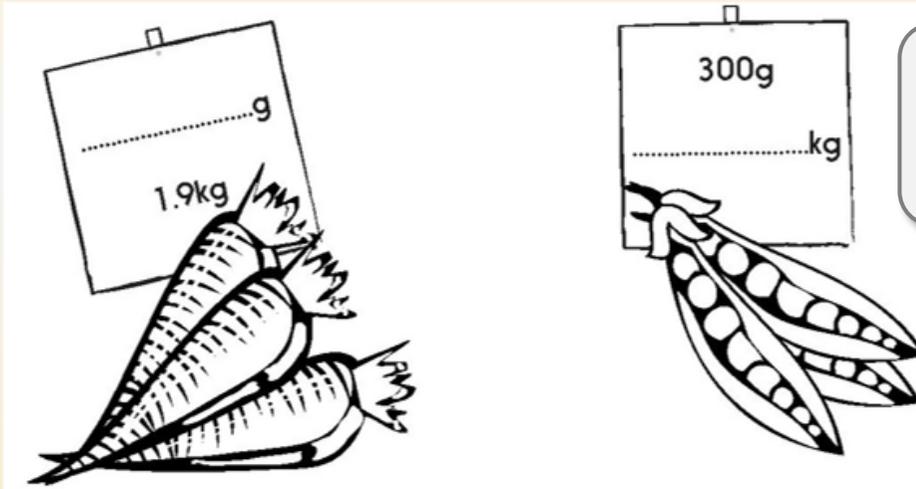


The scale is showing 280g or 0.28kg.

To convert grams to kilograms, we **divide by 1000**.
To convert kilograms to grams, we **multiply by 1000**.

Learning Reminders

Weigh in kilograms/grams; Convert from kilograms to grams and vice versa.



Remember!

To convert grams to kilograms, we **divide by 1000**.
To convert kilograms to grams, we **multiply by 1000**.

The weight of the
beans is given in grams.
 $300\text{g} = 0.3\text{kg}$.

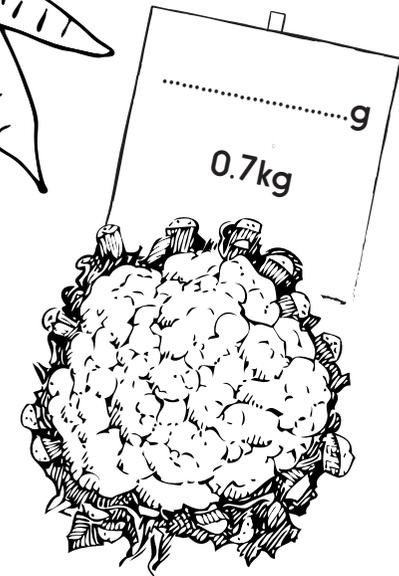
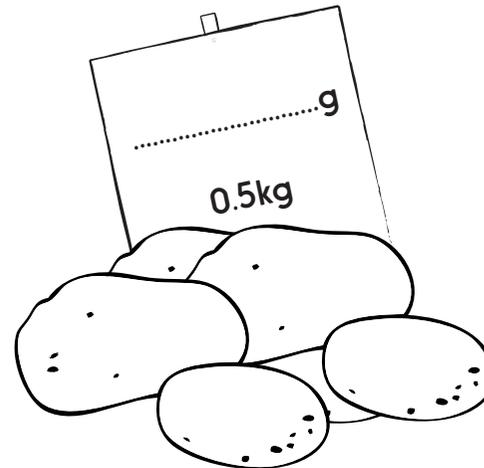
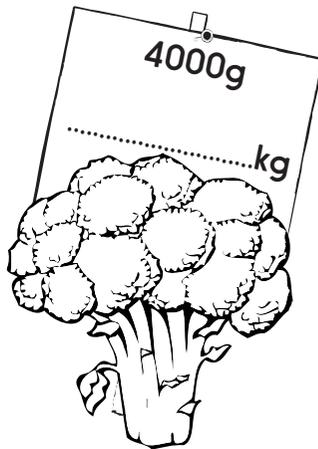
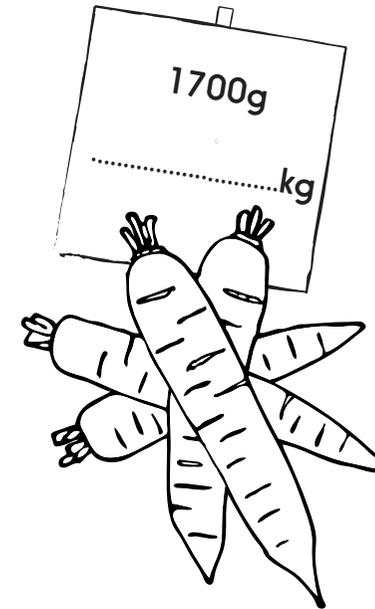
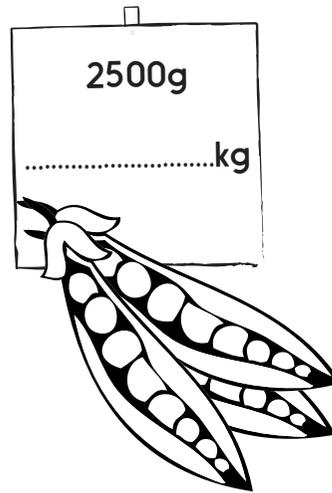
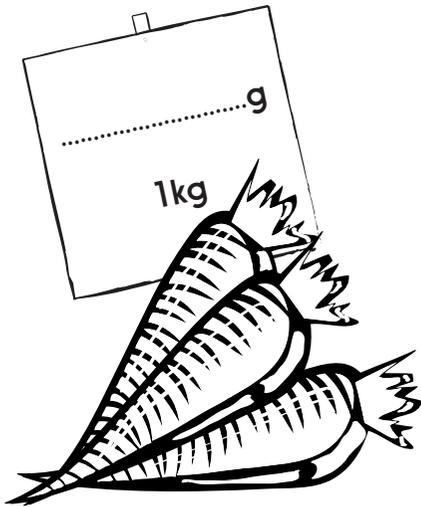
The weight of the carrots
is given in kg.
 $1.9\text{kg} = 1900\text{g}$.

grams to kilograms: **divide by 1000**
 $300\text{g} \div 1000 = 0.3\text{kg}$

kilograms to grams: **multiply by 1000**
 $1.9\text{kg} \times 1000 = 1900\text{g}$

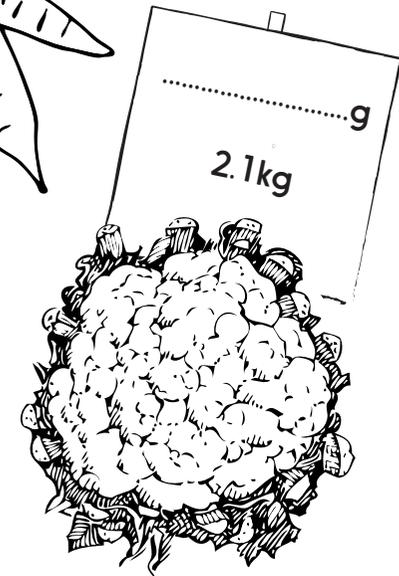
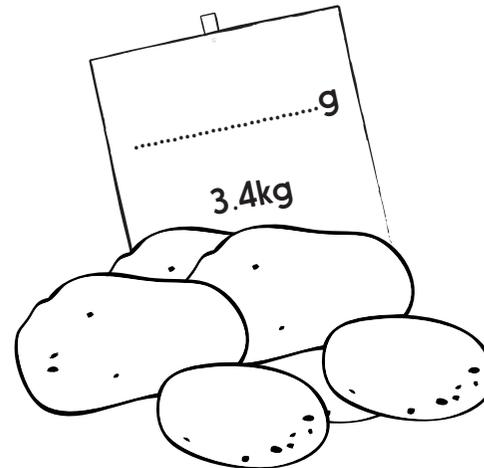
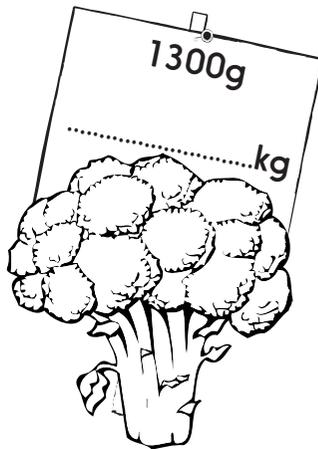
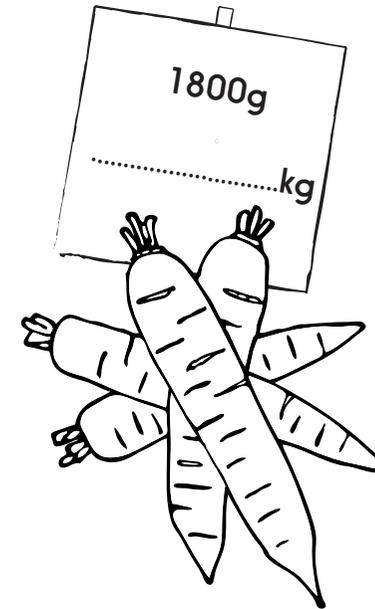
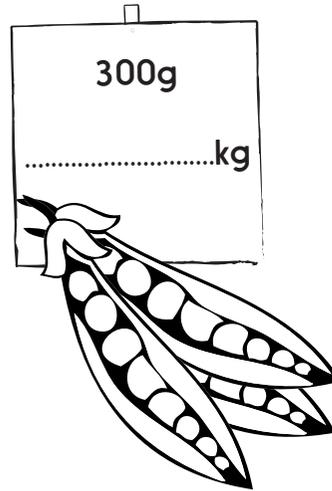
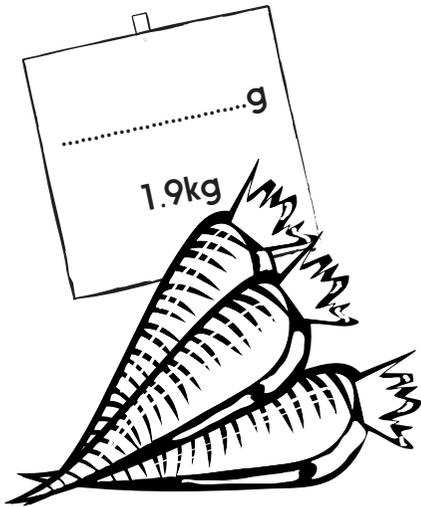
Practice Sheet Mild Grocer shop weights

Complete the shop signs so that the weights are given in both g and kg.



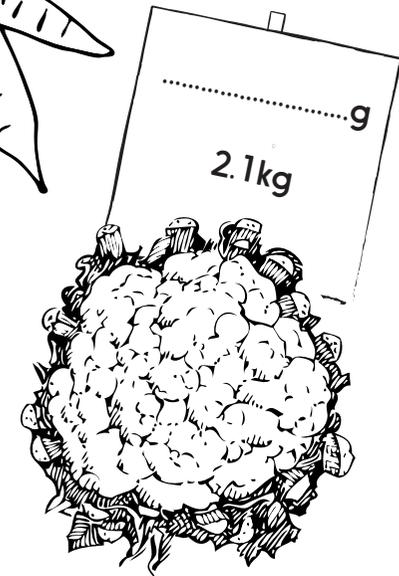
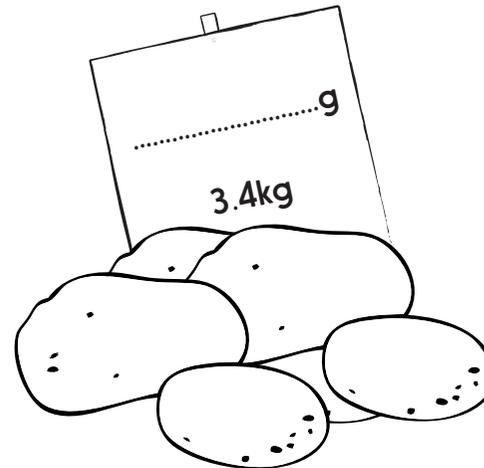
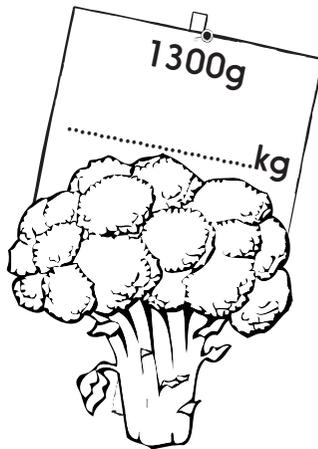
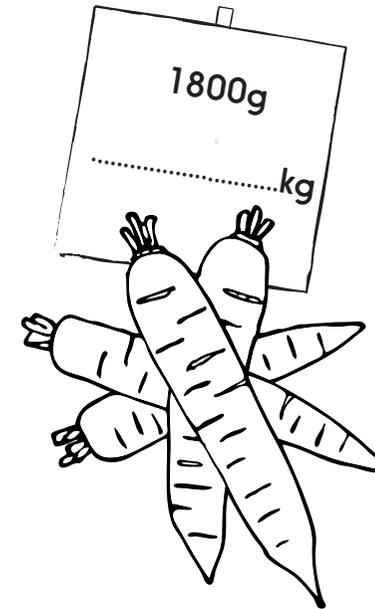
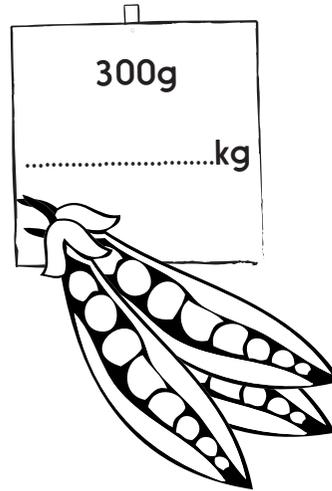
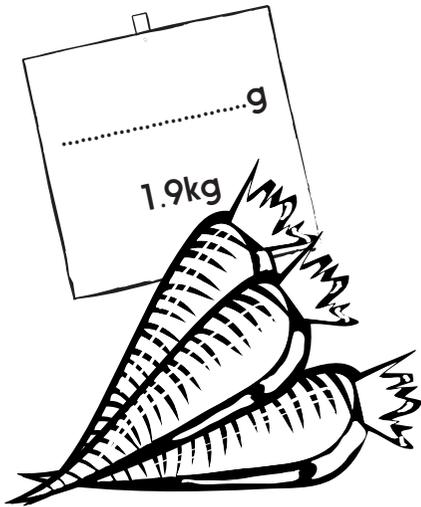
Practice Sheet Mild Grocer shop weights

Complete the shop signs so that the weights are given in both g and kg.



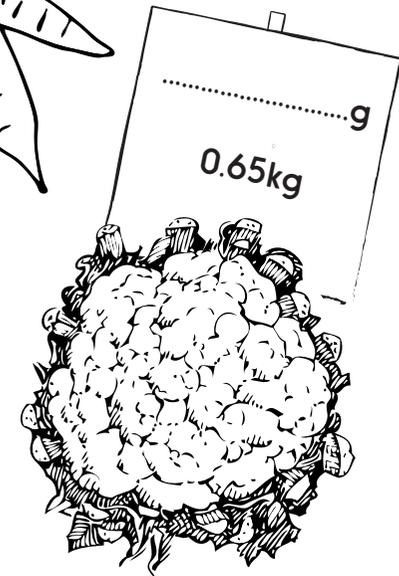
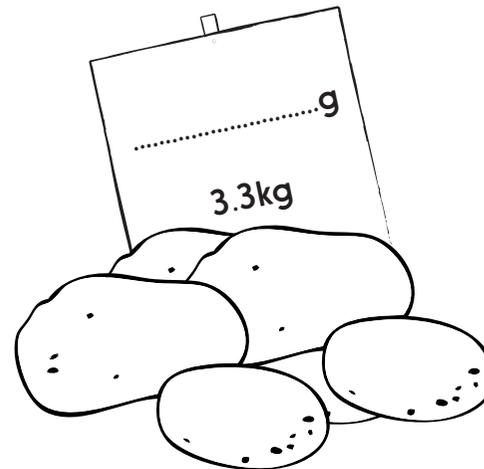
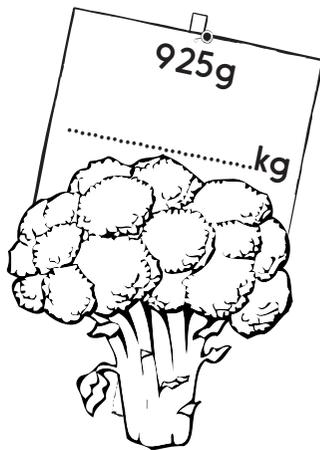
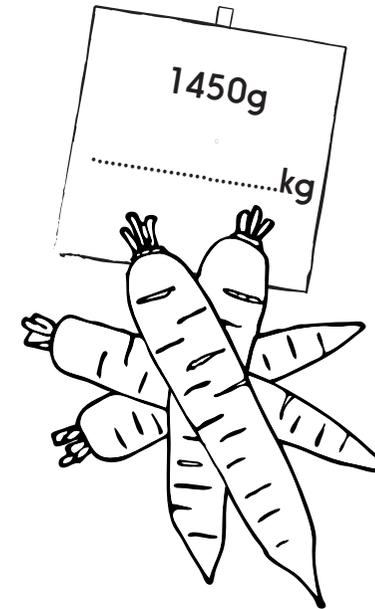
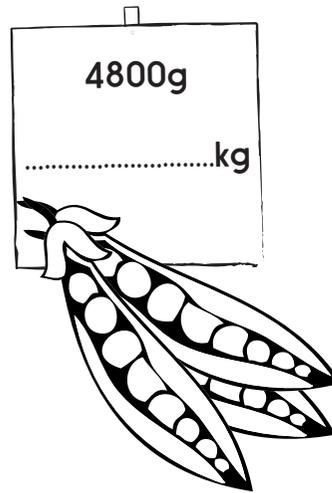
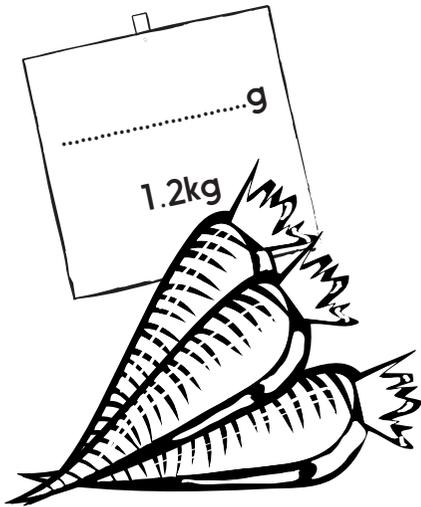
Practice Sheet Hot Grocer shop weights

Complete the shop signs so that the weights are given in both g and kg.



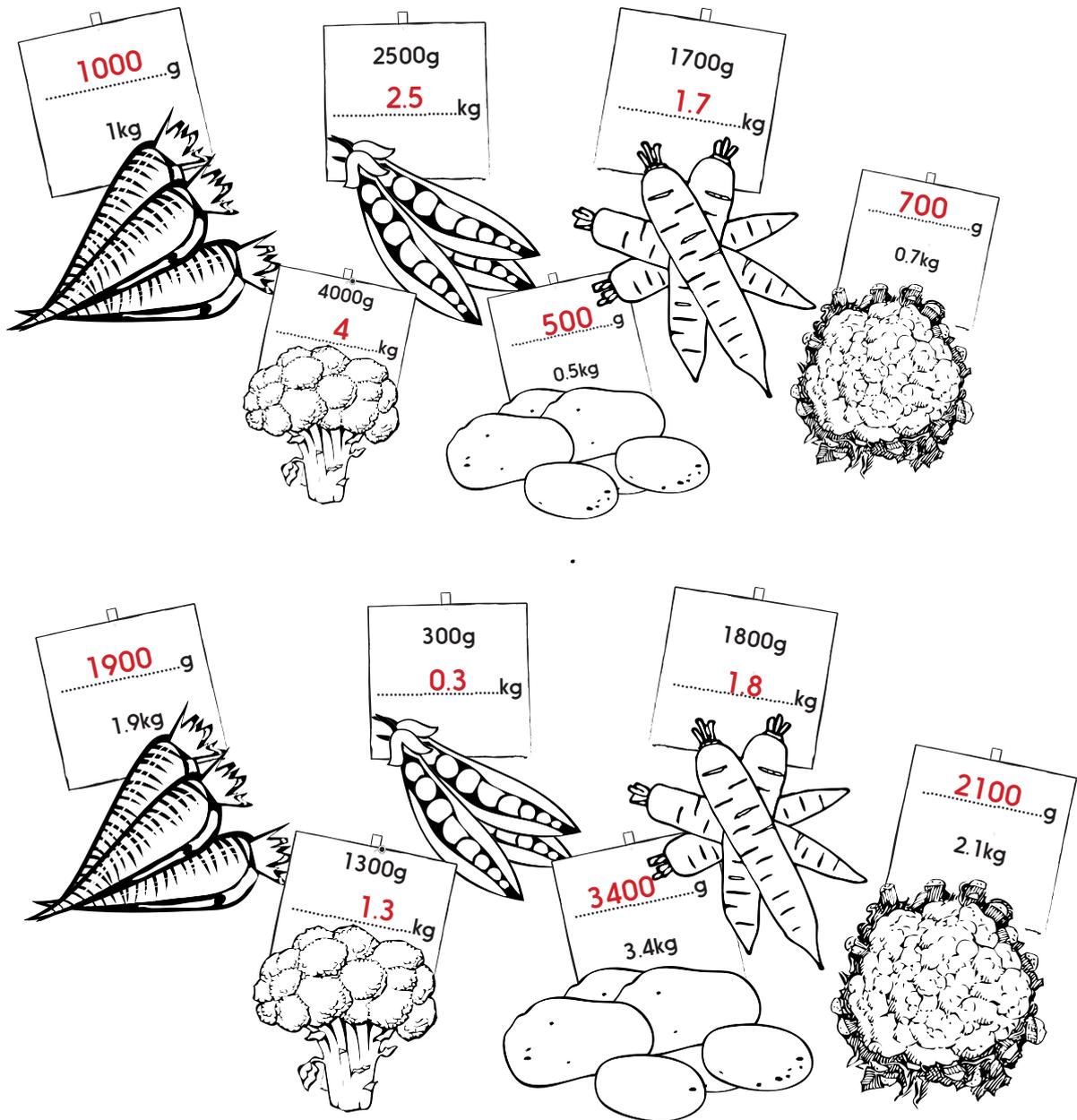
Practice Sheet Hot Grocer shop weights

Complete the shop signs so that the weights are given in both g and kg.



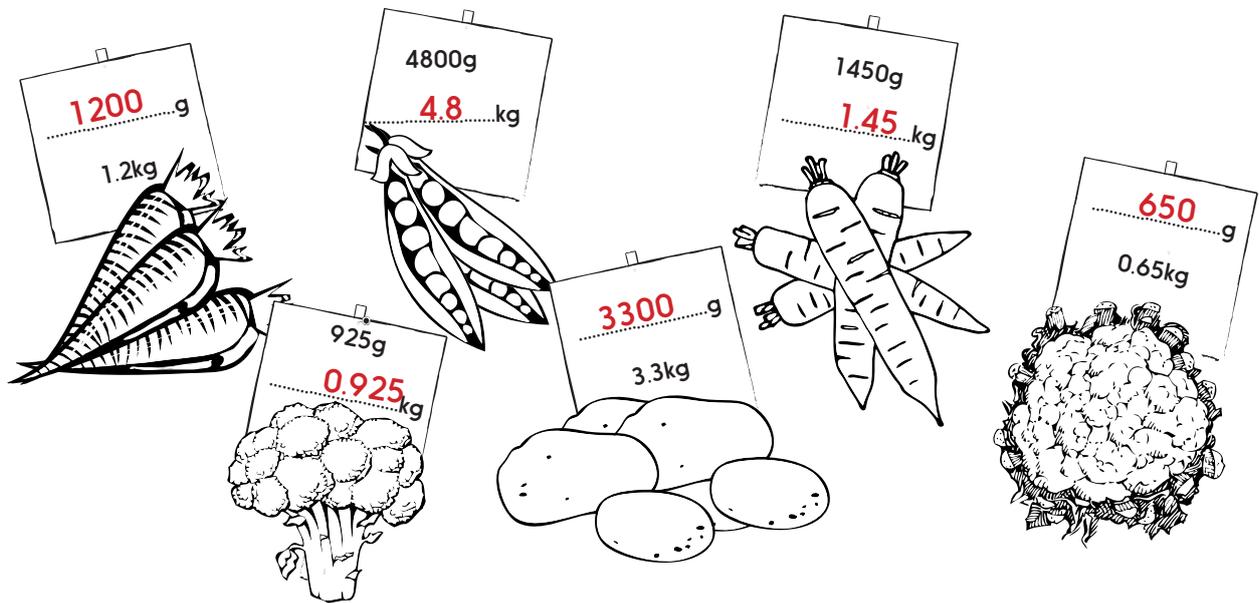
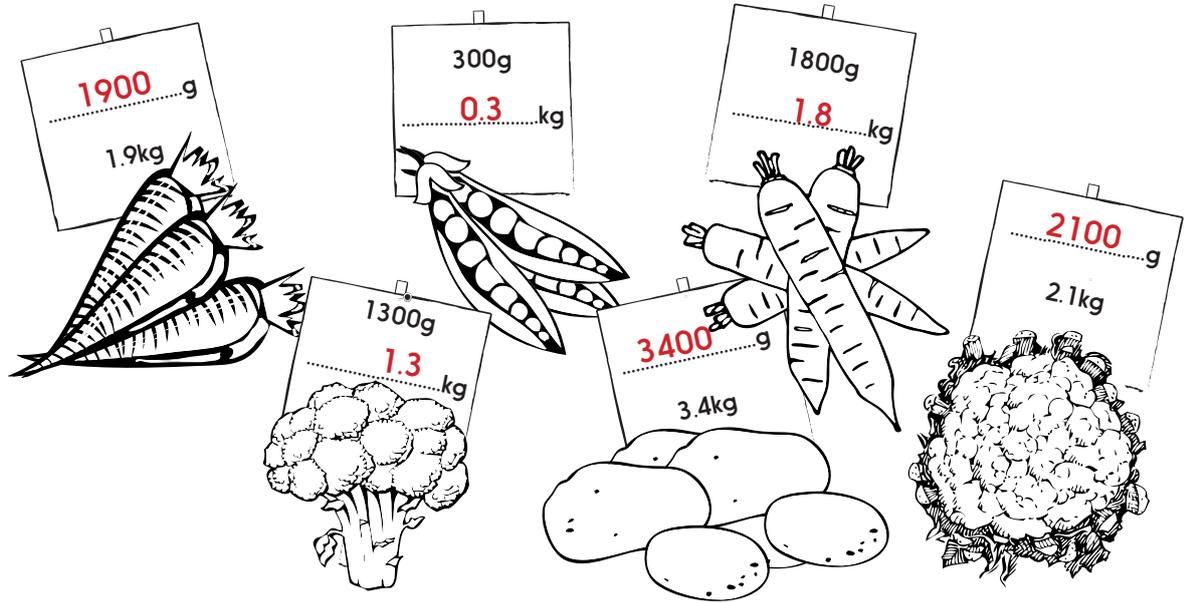
Practice Sheets Answers

Grocer shop weights (mild)



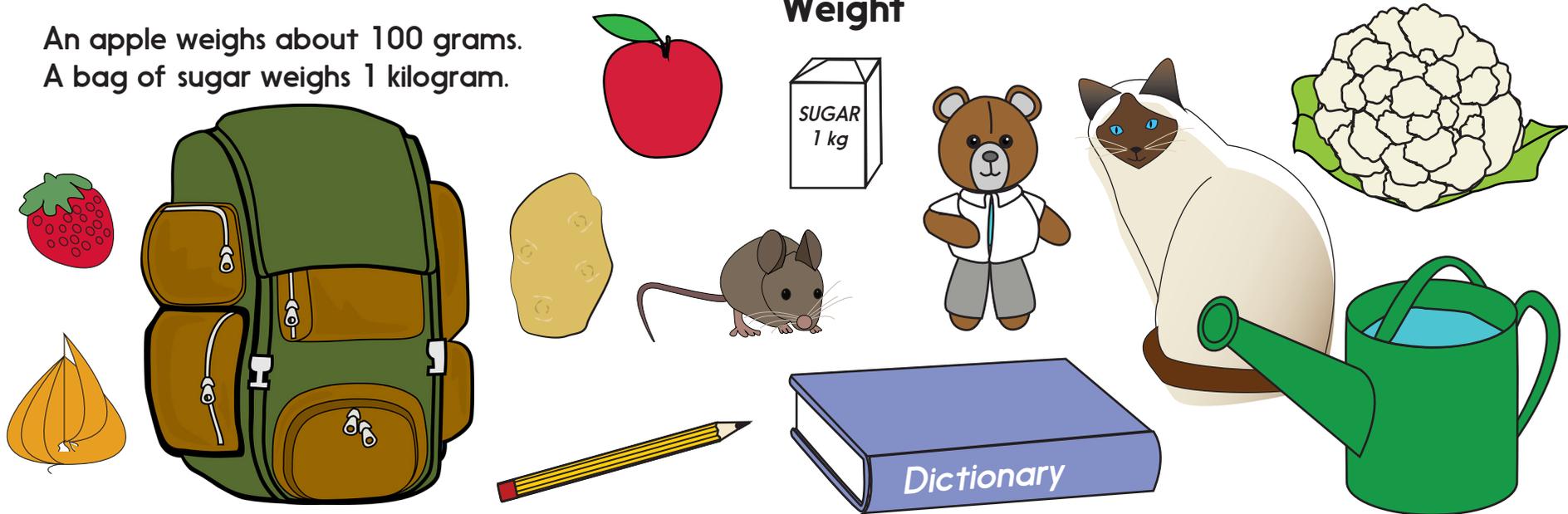
Practice Sheets Answers

Grocer shop weights (hot)



A Bit Stuck? Weight

An apple weighs about 100 grams.
A bag of sugar weighs 1 kilogram.



| Write or draw the things you think will weigh less than 100 grams | Write or draw the things that might weigh about 1 kilogram | Write or draw the things you think will weigh more than 1kg |
|--|---|--|
| | | |

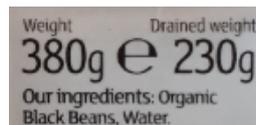
If you have scales at home, weigh each object to check your estimates. How close were you? Write the exact weights.

Investigation

Grocery items



- Find 8-10 tins or food packets, e.g. beans, loaf of bread, tub of butter/margarine etc.
- Look for the weight on the label – look carefully, it is sometimes very small print.
 - It might have an 'e' after the number to show that it is not an exact weight, but an estimate. I found this on my butter: **250g e**.
 - It might say 'net weight'. This means that it's the weight of the food, not including the package.
 - This one shows an e and says 'drained weight' because we might need to know the weight of the food (beans) without the water they are packed in...



- Make a list of your items, in grams, then convert to kilograms, recording each, e.g. tin of beans 395g = 0.395kg
- If you have use of a set of kitchen scales or bathroom scales, try weighing other items that do not have the weight given, e.g. a pair of shoes or a book. Estimate the weight first!

Challenge

Make a list of the items in order of weight, lightest first.
Be careful if some are weights in grams and others in kilograms...