1) Sort these objects into order of mass from lightest to heaviest.

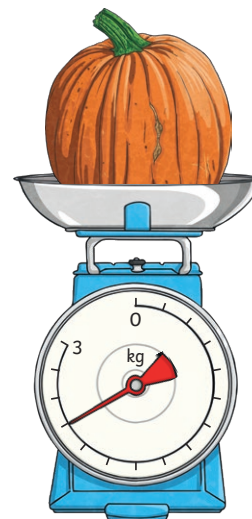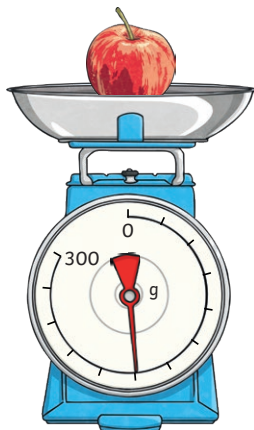| 2kg | 300g | 1120g | 1¼kg | ½kg |

| | | | | |

lightest   heaviest

2) Use <, > or = to compare these objects.

Tomek, Mark and Geri are weighing their shopping items.

1) Sort the items in order of mass from heaviest to lightest.

_____   _____   _____   _____

2) Look at the statements below. Which do you agree with? Explain why.

_____

_____

_____

| Geri says, "The bag of sprouts is heavier than the bag of potatoes because 960 is greater than 4." | Mark says, "The pumpkin weighs less than the apple because the pointer on the pumpkin scale is less than halfway but on the apple scale it is more than halfway." | Tomek says, "The apple weighs less than the bag of potatoes because 175g is less than 4kg." |

3) Explain what is wrong with the incorrect statements.

_____

_____

_____

1) Maria, Jemma, Ben and Graham have all been shopping. Use the clues to work out who each bag belongs to.

A	B	C	D
5kg 600g	2090g	1120g	2940g

This bag belongs to

_____.

This bag belongs to

_____.

This bag belongs to
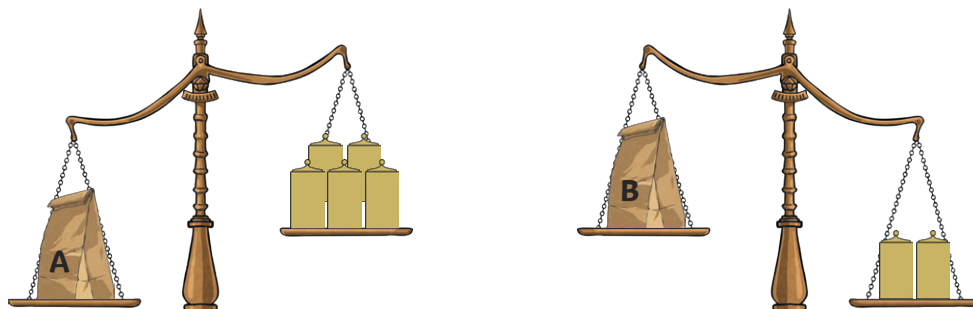
_____.

This bag belongs to

_____.

Maria's shopping bag has a mass of less than $\frac{1}{4}$ of 10kg and more than 2kg.

Jemma's shopping bag has a mass of more than 4kg but less than 6200g.

Ben's shopping bag weighs less than Jemma's but more than Maria's.

2) Write a clue to compare Graham's shopping bag to someone else's.

_____

_____

3) The same shopping bags are placed onto a balance with some sets of equal weights. What can you say is true about the weights?

_____

_____

_____

4) Estimate how many weights would balance each shopping bag.