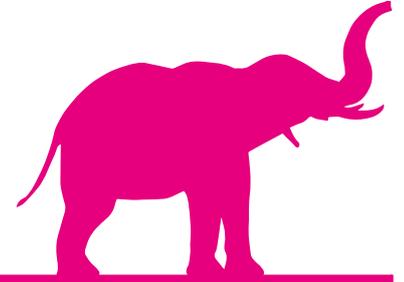


# A feather or an elephant



In this table, the weights (mass) are in order from heaviest to lightest. However, the objects have all been muddled up.



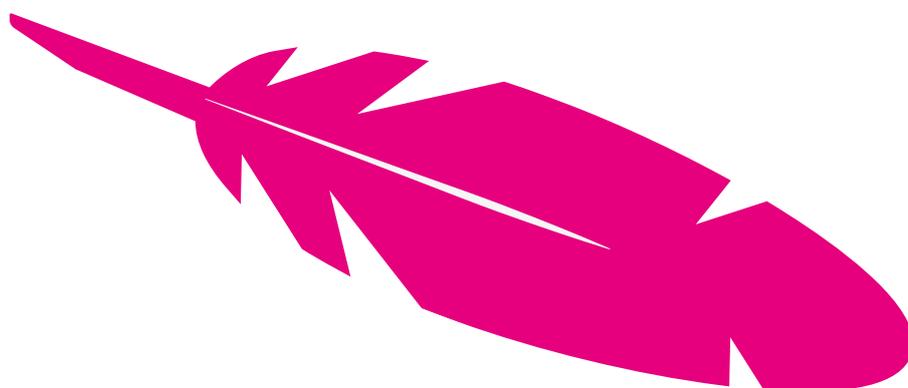
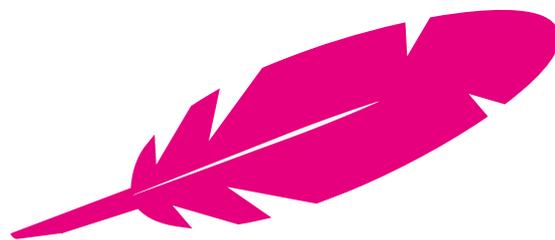
Weight	Object
10,000 kg	An envelope
1,000 kg	A hair
100 kg	An articulated lorry
10 kg	Sack of cement
1 kg	Bag of sugar
0.1 kg	An elephant
0.01 kg	One of the bells of Big Ben
0.001 kg	A feather
0.0001 kg	A packet of spice

Which object do you think should match to each weight?

When you have sorted them out, two boxes have been left blank for you to find something at home which would fit into the order of weights.

**Helpful hints:** Obviously some of these will be estimation – start with a 1 kg bag of sugar as a baseline. Items lighter than 1 kg may be measured in grams and converted.

You may not agree on all the order as some things are unknown – it is the discussion and debate which are important to inform reasonable estimates.



**Family comments:**

**Child comments:**



### Curriculum Link

Solve problems involving the calculation and conversion of units of measure (up to three decimal places where appropriate - this activity uses four decimal places).

# Breakfast cereals



Family Maths  
Toolkit

**A box of breakfast cereal contains these ingredients, shown in a pie chart –**

There is an equal 25% of each ingredient.

Can you design your own mix of ingredients with different percentages? What percentage of each ingredient will you choose? How many ingredients will you have? Can you draw a pie chart to show your new cereal?

Will all your family choose the same?



**Helpful hints:** Try to encourage a variety of percentages, with some small amounts of ingredients. Talk about differences and compare pie charts. Remember the chart must total 100%.

**Family comments:**

**Child comments:**



## Curriculum Link

Interpret and construct pie charts to solve problems.