



Masses of Animals

I can convert metric measures involving mass.




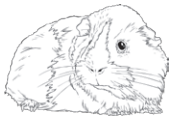



- 1) Draw a line to match the measurements in grams on the left with the equivalent measurements in kilograms on the right.

3565g
1850g
1605g
2455g
2005g

1.85kg
2.005kg
2.455kg
3.565kg
1.605kg

- 2a) Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.

Veterinarian Weight Chart

Animal	Name	Mass (g)	Mass (kg)
	Shelly	1755g	
	Fluffy	1400g	
	Jack		8.65kg
	Cleo		5.355kg
	Peter		2.3kg



b) Use $<$ or $>$ to compare the masses of these animals.

Shelly		Fluffy
Jack		Cleo
Peter		Jack
Fluffy		Peter

c) Order the animals from lightest to heaviest mass.

Shelly	Jack	Peter
Lightest	←————→	Heaviest

Fluffy	Jack	Cleo
Lightest	←————→	Heaviest

Peter	Shelly	Fluffy
Lightest	←————→	Heaviest

d) Sort the animals into the correct column in the table, writing their name and their mass. An example has been done for you.

Lighter than 1.5kg	1.5kg or Heavier
<i>Nutmeg - 1.25kg</i>	

e) Think of your own animals that would fit into each column in the table. Write the name of the animal and their mass in the correct columns.



Masses of Animals Answers

Question	Answer																				
1.	Draw a line to match the measurements in grams on the left with the equivalent measurements in kilograms on the right.																				
	3565g		1.85kg																		
	1850g		2.005kg																		
	1605g		2.455kg																		
	2455g		3.565kg																		
	2005g		1.605kg																		
2a.	Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.																				
	<table border="1"> <thead> <tr> <th>Name</th> <th>Mass (g)</th> <th>Mass (kg)</th> </tr> </thead> <tbody> <tr> <td>Shelly</td> <td>1755g</td> <td>1.755kg</td> </tr> <tr> <td>Fluffy</td> <td>1400g</td> <td>1.4kg</td> </tr> <tr> <td>Jack</td> <td>8650g</td> <td>8.65kg</td> </tr> <tr> <td>Cleo</td> <td>5355g</td> <td>5.355kg</td> </tr> <tr> <td>Peter</td> <td>2300g</td> <td>2.3kg</td> </tr> </tbody> </table>	Name	Mass (g)	Mass (kg)	Shelly	1755g	1.755kg	Fluffy	1400g	1.4kg	Jack	8650g	8.65kg	Cleo	5355g	5.355kg	Peter	2300g	2.3kg		
Name	Mass (g)	Mass (kg)																			
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	Shelly	>	Fluffy																		
	Jack	>	Cleo																		
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	Fluffy	<	Peter																		
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	Lightest		Heaviest																		
	<i>Shelly</i>	<i>Peter</i>	<i>Jack</i>																		



	Lightest	←————→	Heaviest
	<i>Fluffy</i>	<i>Cleo</i>	<i>Jack</i>
	Lightest	←————→	Heaviest
	<i>Fluffy</i>	<i>Shelly</i>	<i>Peter</i>
d	Sort the animals into the correct column in the table, writing their name and their mass in kilograms. An example has been done for you.		
	Lighter than 1.5kg		1.5kg or Heavier
	<i>Nutmeg – 1.25kg</i>		<i>Shelly – 1.755kg</i>
	<i>Fluffy – 1.4kg</i>		<i>Jack – 8.65kg</i>
			<i>Cleo – 5.355kg</i>
			<i>Peter – 2.3kg</i>
e	Think of your own animals that would fit into each column in the table. Write the name of the animal and their mass in the correct columns.		
	Accept any sensible answers with the mass placed in the correct column.		



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- 1) Draw a line to match the measurements in kilograms on the left with the equivalent measurements in grams on the right.

2.705kg
2.5kg
2.75kg
3.043kg
3.005kg

3005g
2750g
3043g
2705g
2500g

- 2a) Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.

Veterinarian Weight Chart			
Animal	Name	Mass (g)	Mass (kg)
tortoise	Shelly	2755g	
guinea pig	Fluffy	1450g	
dog	Jack		8.655kg
cat	Cleo		4.3kg
rabbit	Peter	3905g	
chicken	Penny		2.15kg
snake	Fang	3095g	
ferret	Bandit	1400g	



Masses of Animals Answers

Question	Answer						
1.	Draw a line to match the measurements in kilograms on the left with the equivalent measurements in grams on the right.						
	2.705kg		3005g		2.5kg		2750g
	2.75kg		3043g		3.043kg		2705g
	3.005kg		2500g	2a. Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.			
	Name	Mass (g)	Mass (kg)	Shelly	2755g	2.755kg	
Fluffy	1450g	1.45kg		Jack	8655kg	8.655kg	
Cleo	4300kg	4.3kg		Peter	3905g	3.905kg	
Penny	2150g	2.15kg		Fang	3095g	3.095kg	
Bandit	1400g	1.4kg		b Use < or > to compare the masses of these animals.			
Jack	>	Bandit	Cleo	>	Peter		
Peter	>	Fang	Bandit	<	Penny		
Penny	<	Shelly	Fluffy	>	Bandit		



c	Order the animals from heaviest to lightest mass.					
	Heaviest		←—————→			Lightest
	<i>Jack</i>	<i>Cleo</i>	<i>Fang</i>	<i>Fluffy</i>	<i>Bandit</i>	
	Heaviest		←—————→			Lightest
	<i>Peter</i>	<i>Fang</i>	<i>Shelly</i>	<i>Penny</i>	<i>Fluffy</i>	
d	Write a label for each column that describes how the animals have been sorted by mass.					
	<i>Lighter than 3.9kg</i>			<i>3.9kg or Heavier</i>		
	Shelly	Fluffy	Jack	Cleo		
	Penny	Fang	Bandit	Peter		
3.	The vet told Tim that his cat weighs 6905g. Tim says that this means his cat weighs 6.95kg. Is he right or wrong? Explain how you know.					
	Children’s answers should show understanding that the digits in the number do not reorder themselves when the number is multiplied or divided. They should also show understanding that the ‘placeholder’ zero must be included.					



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- 1) Draw a line to match the measurements in grams on the left with the equivalent measurements in kilograms on the right.

1.19kg
1.009kg
0.19kg
1.09kg
1.9kg

1090g
190g
1009g
1900g
1190g

- 2a) Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.

Veterinarian Weight Chart

Animal	Name	Mass (g)	Mass (kg)
tortoise	Shelly	2755g	
guinea pig	Fluffy	1450g	
dog	Jack		8.65kg
cat	Cleo		4.3kg
lizard	Liz	395g	
chicken	Penny		2.01kg
snake	Fang	3095g	
ferret	Bandit	1400g	



b) Order the animals by mass from lightest (1) to heaviest (8).

1)	2)	3)	4)
5)	6)	7)	8)

c) In this table, the animals have been sorted by mass – but the labels are missing! Write a label for each column that describes how the animals have been sorted by mass.

Fluffy	Bandit	Liz	Penny	Shelly	Jack	Fang	Cleo

3) A pet carrier can hold three animals with a combined mass of less than 5kg. Write down as many different combinations of three animals as you can find that the pet carrier could hold. The first one has been done for you. You may not need to fill all the boxes.

<i>Liz, Bandit and Fluffy</i>	



Masses of Animals Answers

Question	Answer			
1.	Draw a line to match the measurements in grams on the left with the equivalent measurements in kilograms on the right.			
	1.19kg		1090g	
	1.009kg		190g	
	0.19kg		1009g	
	1.09kg		1900g	
	1.9kg		1190g	
2a.	Here are the masses of some of the animals that the vet weighed on Tuesday. Some of the measurements are written in grams and some are written in kilograms. Convert the measurements from one unit to another.			
	Name	Mass (g)	Mass (kg)	
	Shelly	2755g	2.755kg	
	Fluffy	1450g	1.45kg	
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	Cleo	4300g	4.3kg	
	Liz	395g	0.395kg	
	Penny	2010g	2.01kg	
	Fang	3095g	3.095kg	
	Bandit	1400g	1.4kg	
b	Order the animals by mass from lightest (1) to heaviest (8).			
	1) <i>Liz</i>	2) <i>Bandit</i>	3) <i>Fluffy</i>	4) <i>Penny</i>
	5) <i>Shelly</i>	6) <i>Fang</i>	7) <i>Cleo</i>	8) <i>Jack</i>



c	In this table, the animals have been sorted by mass – but the labels are missing! Write a label for each column that describes how the animals have been sorted by mass.								
	<i>Lighter than 2kg</i>			<i>Between 2kg and 3kg</i>			<i>3kg or Heavier</i>		
	Fluffy	Bandit	Liz	Penny	Shelly	Jack	Fang	Cleo	
3.	A pet carrier can hold three animals with a combined mass of less than 5kg. Write down as many different combinations of three animals as you can find that the pet carrier could hold. The first one has been done for you.								
	<i>Liz, Bandit and Fluffy</i>				<i>Liz, Fluffy and Penny</i>				
	<i>Liz, Bandit and Penny</i>				<i>Liz, Fluffy and Shelly</i>				
	<i>Liz, Bandit and Shelly</i>				<i>Liz, Fluffy and Fang</i>				
	<i>Liz, Bandit and Fang</i>				<i>Bandit, Fluffy and Penny</i>				