



Name _____ Class _____ Date _____

Is the mass of your pencil case less than, more than or about the same as one kilogram? Hold the pencil case in one hand and the 1 kg mass in the other to compare. Write the results in the table.

YOU NEED:

☆ 1 kilogram mass

Item measured	Less than 1 kg, about the same as 1 kg or more than 1 kg?
Pencil case	
Tape dispenser	
Telephone book	
Dictionary	
Basketball	
School bag	
Brick or large rock	



PREVIEW

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How do you know when the buckets of an equal arm balance contain the same mass?

Use the balance and a 1 kg mass to measure a ball of modeling clay with a mass of one kilogram. Use the items to find the missing information in these sentences.

This ball of modeling clay has a mass of _____.

When it is rolled into a thin snake it has a mass of _____.

When it is squashed flat it has a mass of _____.

When it is broken up into bits, it has a mass of _____.

No matter how the shape is changed, a one kilogram ball of modeling clay still has a mass of _____.

Use the modeling clay to make two equal balls. How can you check that they have an equal mass?

What is the mass of each ball? _____

What would be the mass of four of these balls? _____



ANSWER KEY

Is the mass of your pencil case less than, more than or about the same as one kilogram? Hold the pencil case in one hand and the 1 kg mass in the other to compare. Write the results in the table.

YOU NEED:

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PREVIEW

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The arms are horizontal.

Use the balance and a 1 kg mass to measure a ball of modeling clay with a mass of one kilogram. Use the items to find the missing information in these sentences.

This ball of modeling clay has a mass of 1kg

When it is rolled into a thin snake it has a mass of 1kg

When it is squashed flat it has a mass of 1kg

When it is broken up into bits, it has a mass of 1kg

No matter how the shape is changed, a one kilogram ball of modeling clay still has a mass of 1kg

Use the modeling clay to make two equal balls. How can you check that they have an equal mass?

I measure them with a balance and the 2 balls have equal mass if the balance hands are horizontal.

What is the mass of each ball? 0,5kg

What would be the mass of four of these balls? 0,25kg