

Measurement Challenge Cards

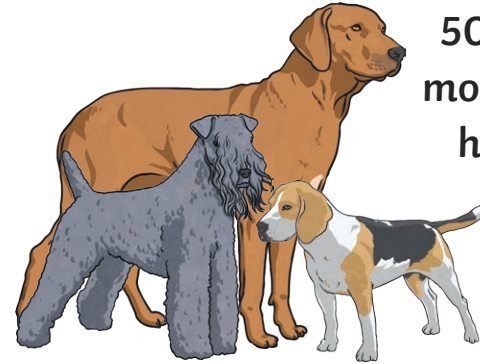
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Measurement Challenge Cards

Pet's Mass

Jamie has three dogs. The smallest dog is called King, the middle sized dog is called Petra and the biggest dog is called Gulliver. Petra weighs 12kg 500g. Gulliver weighs 3kg more than Petra and King is half the weight of Petra.

What is the total mass of all 3 dogs?

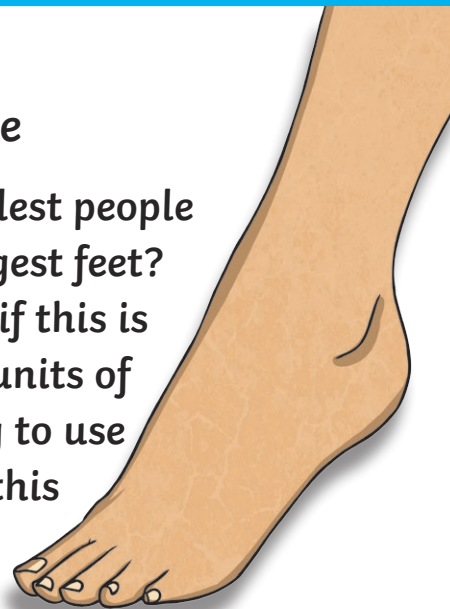
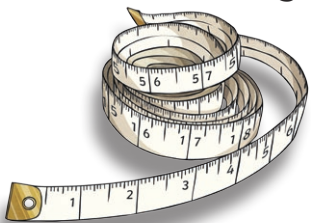


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Measurement Challenge Cards

Tallest People

Do you think that the tallest people will always have the longest feet? In a small group find out if this is true or not. Decide which units of measurement you are going to use to answer this problem.



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Measurement Challenge Cards

Fill that Container

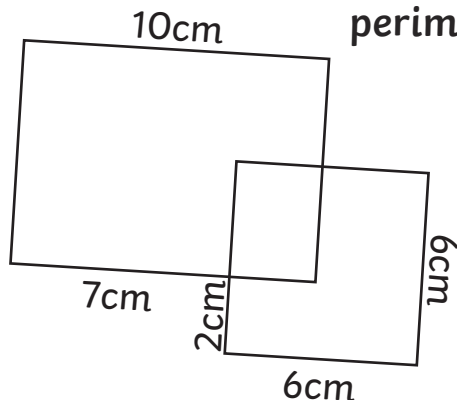
Jusna needs to put 1 litre 300ml of water into a container. She has 2 bottles which she knows have a capacity of 250ml and 100ml. Can you think of 3 different ways she could use the bottles to put the amount of water into the container she needs?



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Perimeter

These 2 rectangles overlap to make another rectangle. Use the information to work out the perimeter of the rectangle in the middle:



How Much Money?

I have 5 coins in my pocket. 2 of them are silver, the rest are bronze. Show 5 different amounts I could have:

Here is an example:

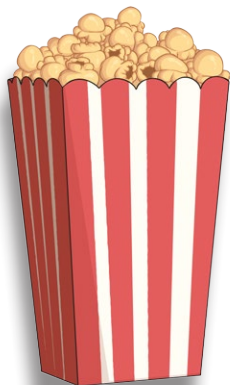


$$5p + 5p + 2p + 2p + 1p = 15p$$

What is the greatest total you can make?

Tick Tock Film O'Clock

I'm going to the cinema to watch my favourite film. It lasts for 130 minutes. It takes 5 minutes to walk to the bus stop. If I start watching the movie at 3:10pm will I be able to catch the 5.30pm bus home without missing part of the movie? Explain your answer.



Chimes

A clock chimes once for every hour (e.g. 5 o'clock would be 5 chimes) and once every half hour. Throughout the day, how many times would the clock chime?





How Long?

On Monday I start jogging at 2:10p.m. and finish at 2:55p.m. How long have I been jogging for? The next day I go jogging again and run for twice as long. How long in hours and minutes do I run over the 2 days?

Measurement Challenge Cards **Answers**

Pet's Mass

Jamie has three dogs. The smallest dog is called King, the middle sized dog is called Petra and the biggest dog is called Gulliver. Petra weighs 12kg 500g. Gulliver weighs 3kg more than Petra and King is half the weight of Petra. What is the total mass of all 3 dogs?

34kg 250g

Tallest People

Do you think that the tallest people will always have the longest feet? In a small group find out if this is true or not. Decide which units of measurement you are going to use to answer this problem.

Answers dependent upon the children's measurements. Children should answer the question and provide the evidence from the measurements they make.

Fill that Container

Jusna needs to put 1 litre 300ml of water into a container. She has 2 bottles which she knows have a capacity of 250ml and 100ml. Can you think of 3 different ways she could use the bottles to put the amount of water into the container she needs?

Answers show combinations of 250ml and 100ml which total 1litre 300ml

Perimeter

These 2 rectangles overlap to make another rectangle. Use the information to work out the perimeter of the rectangle in the middle:

Perimeter = 14cm

How Much Money?

I have 5 coins in my pocket. 2 of them are silver, the rest are bronze. Show 5 different amounts I could have:

Children's answers show 5 different totals, each combination including 2 silver coins and 3 bronze coins.

What is the greatest total you can make?

Greatest total = £1.06

Tick Tock Film O'clock

I'm going to the cinema to watch my favourite film. It lasts for 130 minutes. It takes 5 minutes to walk to the bus stop. If I start watching the movie at 3:10pm will I be able to catch the 5.30pm bus home without missing part of the movie? Explain your answer.

Yes, there would be enough time to catch the bus. Answer explains that the film ends at 5:20p.m., the walk to the bus would mean she would be there at 5:25p.m., leaving enough time.

Chimes

A clock chimes once for every hour (e.g. 5 o'clock would be 5 chimes) and once every half hour. Throughout the day, how many times would the clock chime?

180 chimes

How Long?

On Monday I start jogging at 2:10p.m. and finish at 2:55p.m. How long have I been jogging for?

45 minutes

The next day I go jogging again and run for twice as long. How long in hours and minutes do I run over the 2 days?

2 hours 15 minutes