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Book 2 - Ages 6/7

Measurement in Mathematics Series

Practical measuring activities for the
classroom.

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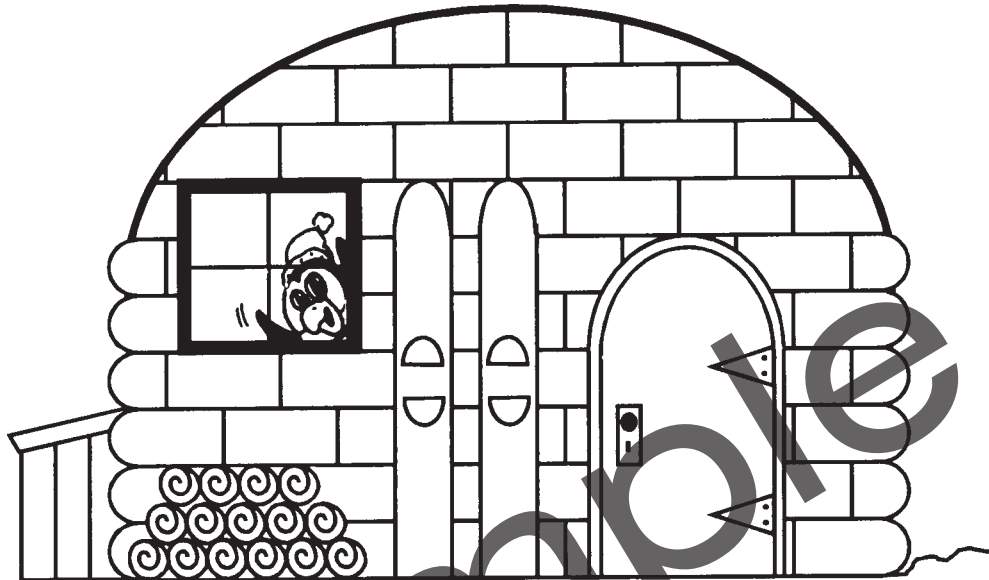
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Name:











Concept - Length. Measure lengths and distances using arbitrary measures.

Buzz the Penguin's House

Materials: You will need coloured pencils.



Use Buzz's ice house to answer the questions and draw the pictures.

| How tall is: | Around the house draw: |
|---|--|
| 1.  bricks | a  5 bricks high. |
| 2.  bricks | a  9 bricks high. |
| 3.  bricks | a  2 bricks high. |
| 4.  bricks | an  3 bricks high. |
| 5.  bricks | a  2 bricks high. |

Section 2

Buzz's Craft Ideas

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Notes on Specific Pages

Page 15 A Picture for the Wall

Discuss the shapes and their characteristics. Use the frame as an area guide when making the picture. Does having a boundary make this activity more difficult? Discuss specific instances when children had to change their picture so it would fit within the frame.

Page 19 Wind Chimes

Recipe for playdough - 2 cups of flour, $\frac{1}{2}$ cup of salt, 1 tablespoon of oil and 1 cup of water. Mix together, adding water slowly.

Ensure holes made in each ball are large as the cavity will shrink when playdough is cooking. Bake in a slow oven for 30 minutes.

Page 21 Buzz's Sand Art

Coloured sand can be made by thoroughly mixing powdered paint with the sand. Using spoonfuls of different coloured sand, make a striped pattern to fill the jar. The stripes can be of different sizes, or the jars various shapes and sizes. Jars with lids would make the sand secure. The jars can be decorated by giving wool for hair and coloured paper for eyes to make funny and interesting creatures.

Page 23 Framing Photographs

A colourful and interesting art lesson could be based on these photographs and displayed in Buzz's house on completion.

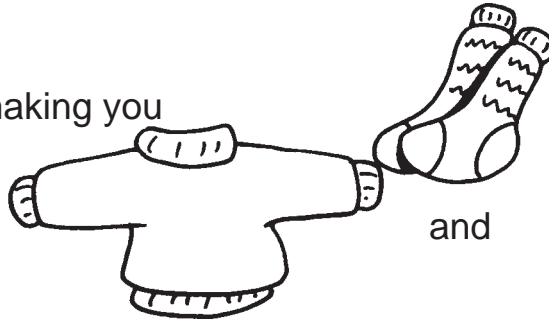
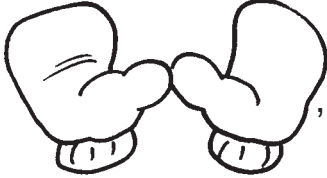
Name:

Concept - Length. Use the 10 cm ruler as a measuring unit.

Crafty Buzz

Materials: You will need scissors, a pencil and the ruler at the bottom of this page.

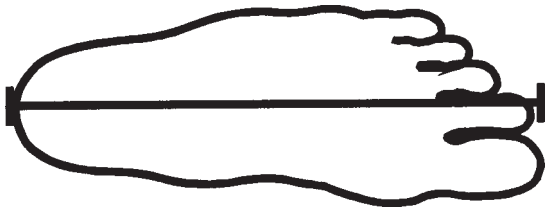
Buzz loves to knit. He is making you



and



Can you send Buzz your measurements? Estimate first, then use the 10 cm ruler to measure.

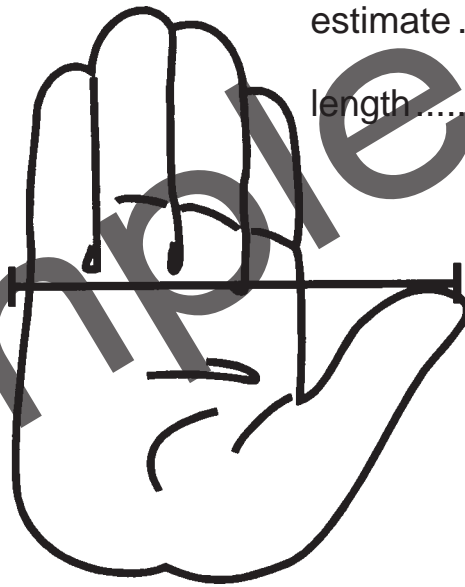


estimate cm

length cm

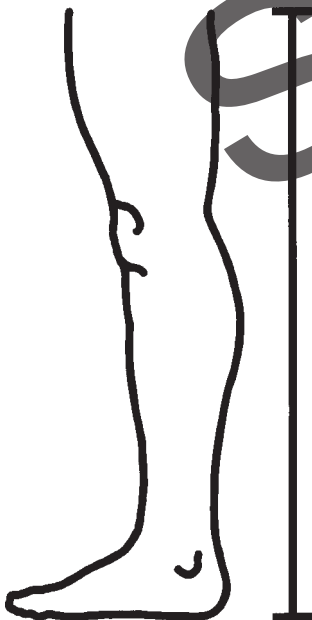
estimate cm

length cm



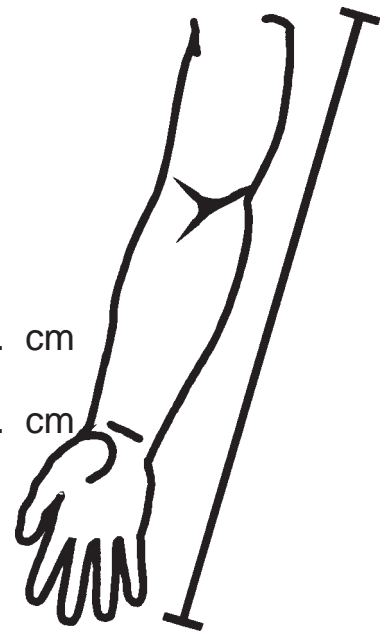
estimate cm

length cm



estimate cm

length cm



Name:

Concept - Mass. Use the balance to carry out experiments with modelling material.

Wind Chimes

Materials: You will need a large ball of playdough, a set of balance scales, lengths of string and a wire coat-hanger.

Buzz is making wind chimes to hang outside his house. The noise scares the leopard seals away.

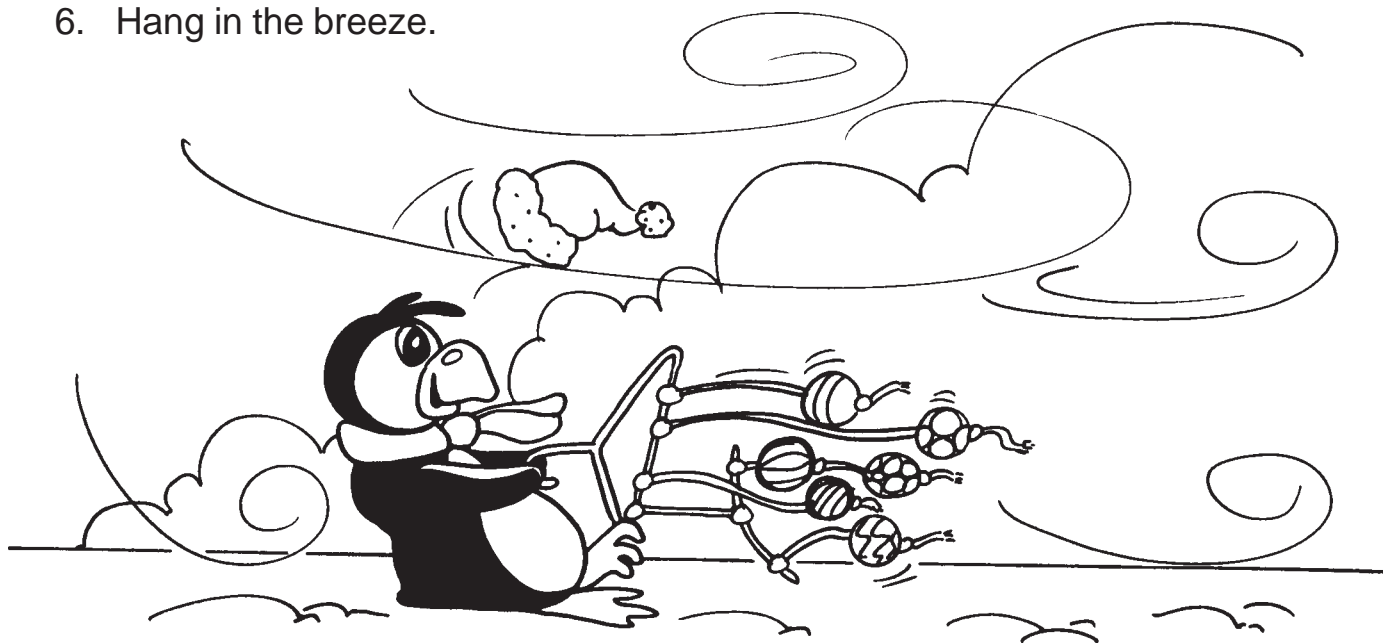
You can make some too.

1. Use the balance scales to make a lot of playdough balls the same size and weight.

Was this easy? Why?

.....
.....
.....

2. Make holes through the middle of each ball and place them on a baking tray.
3. Your teacher will bake them in the oven until they are hard.
4. Paint and decorate each ball.
5. Thread the balls on your lengths of string and tie them to the coat-hanger. Make sure it balances.
6. Hang in the breeze.



Name:

Concept - Area. Compare and seriate the size of surfaces and areas.

Hands, Feet and Flippers

Materials: You will need 2 pieces of grid paper, a pencil and scissors.

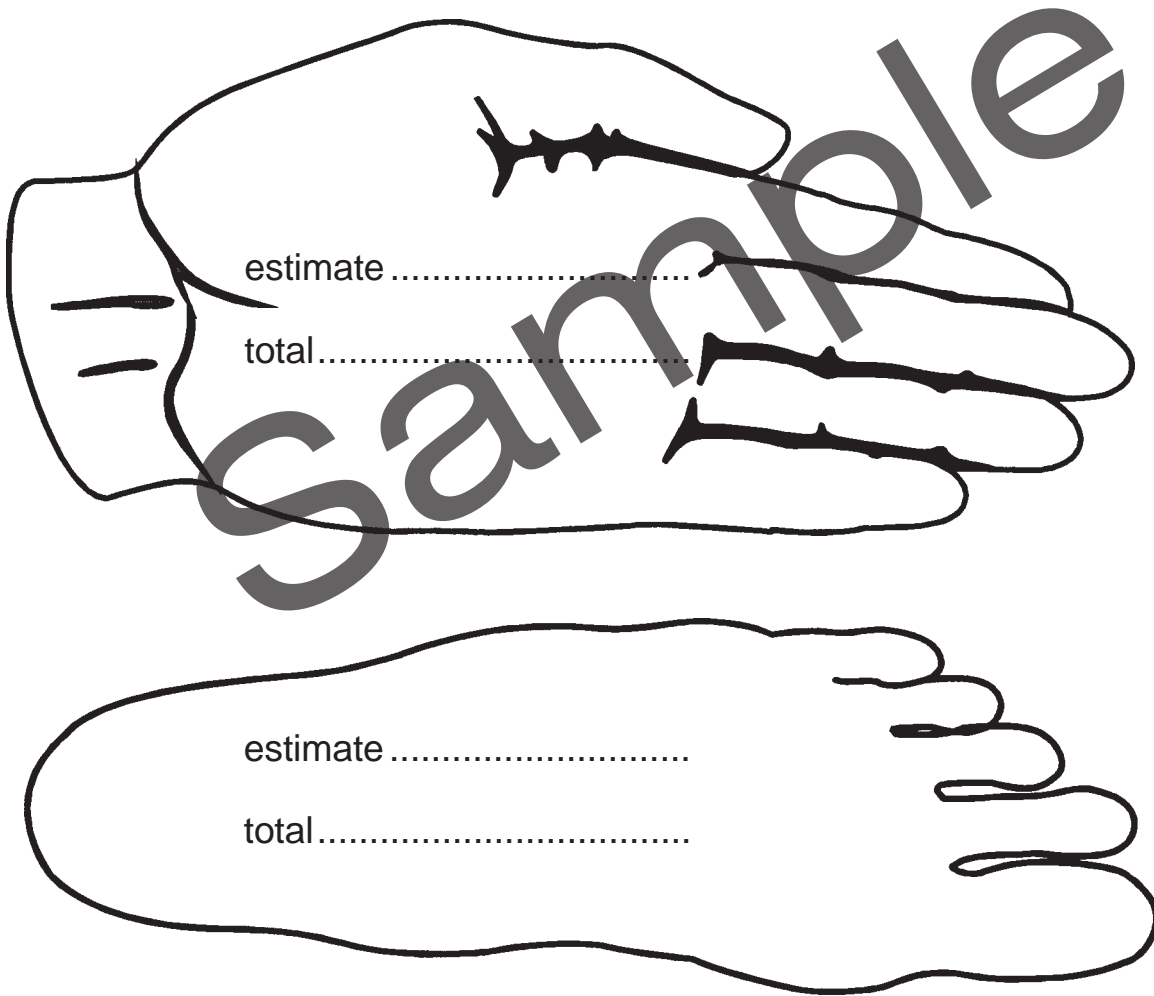
Place your hand on the grid paper, fingers closed.

Draw around your hand very carefully.

Do the same with your foot.

How many squares does your hand cover?

How many squares does your foot cover?



Compare to Buzz's foot and flipper on the next page. Which covers the most squares?

My hand is Buzz's flipper is

My foot is Buzz's foot is