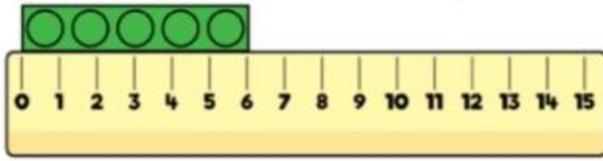




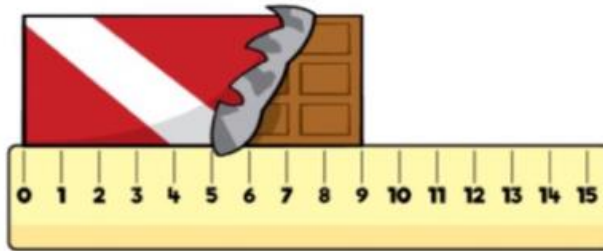
Task 2: Can you answer these questions about measuring with a ruler?

How long is the building block?



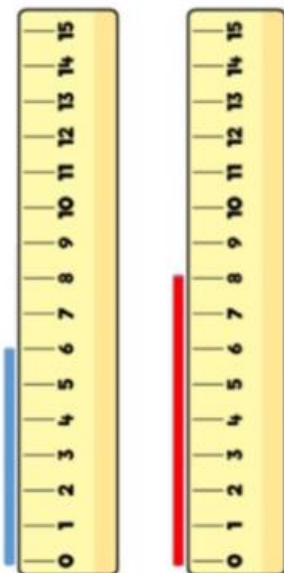
The building block is  cm.

What is the length of the chocolate bar?



The chocolate bar is  cm.

Which straw is the tallest?



The blue straw is  cm tall.

The red straw is  cm tall.

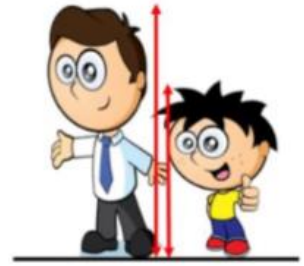
The  straw is the tallest.

The  straw is the shortest.

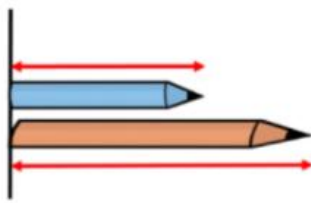
Use the words **taller** and **shorter** in the sentence stems to compare the height of the man and the boy.

The man is  than the boy.

The boy is  than the man.



Use the words **longer** and **shorter** in the sentence stems to compare the length of the blue pencil and the orange pencil.



The blue pencil is  than the orange pencil.

The orange pencil is  than the blue pencil.

Which pencil is the longest? Which pencil is the shortest?

Compare the vehicles using the words to help you.

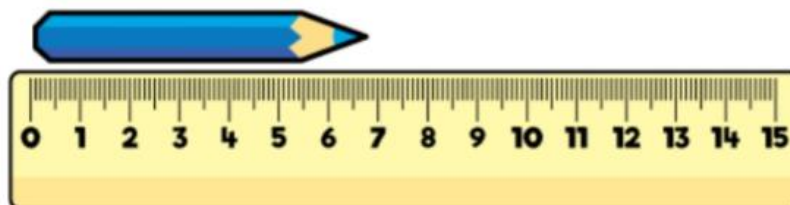


length height  
longer same  
taller shorter

Choose a variety of objects and practice measuring them using a centimetre ruler.

Remember to line up the object to the 0 mark on the ruler.

e.g. How long is the pencil to the nearest centimetre?



How tall is the glass?

What other objects can you find to measure the height of?



Draw a line that is:

- 5 cm long
- 8 cm long
- Longer than 4 cm but shorter than 7 cm.

Task 3: Galactic Maths

It is the year 2050 and you are going to buy a house on Mars.  
You need a garden for your pet. Will the garden be big enough?



How long do you think each side is? This is called a good guess  
(or an estimation)

With a centimetre ruler measure each side of the garden.

How long is each side?

What to measure	My good guess in centimetres cm	How long it is in centimetres cm
the top		
the left side		
the right side		
the bottom		

Now you can work out how long the sides are altogether.

If you have a garden, make a rectangle for your pet and measure it.  
You will need a tape measure and measure in metres (m).

If you do not have a garden, make a rectangle using different things e.g.

- straws
- Lego bricks
- 10p coins
- pens or pencils

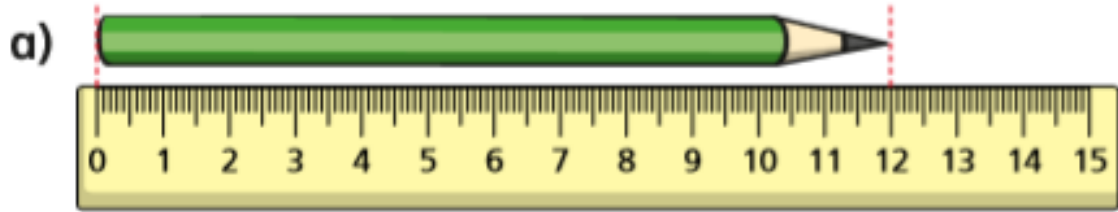
Draw another shaped garden.  
Have a go at measuring that.



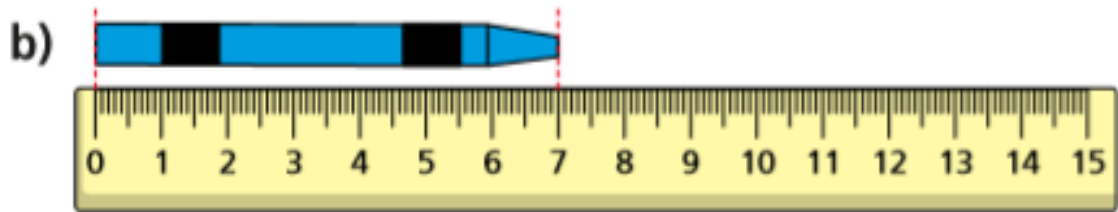
Have fun!

Task 4: Can you measure these objects and answer the questions?

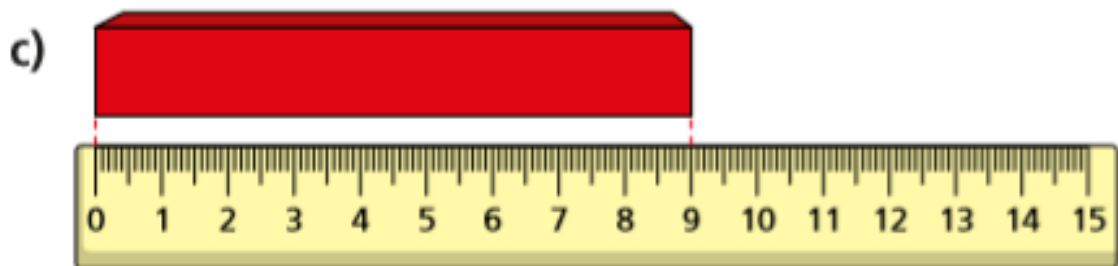
**I** How long is each object?



The pencil is  cm long.

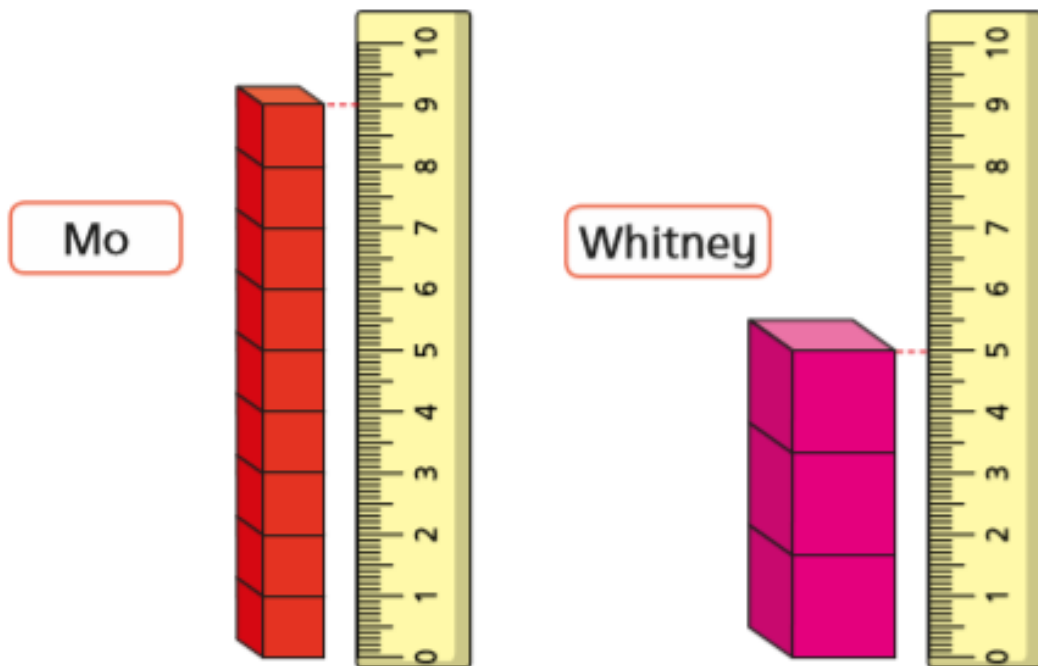


The crayon is  cm long.



The brick is  cm long.

3 Mo, Whitney and Eva are building towers.



a) How tall is Mo's tower?

Mo's tower is  cm tall.

b) How tall is Whitney's tower?

Whitney's tower is  cm tall.

c)



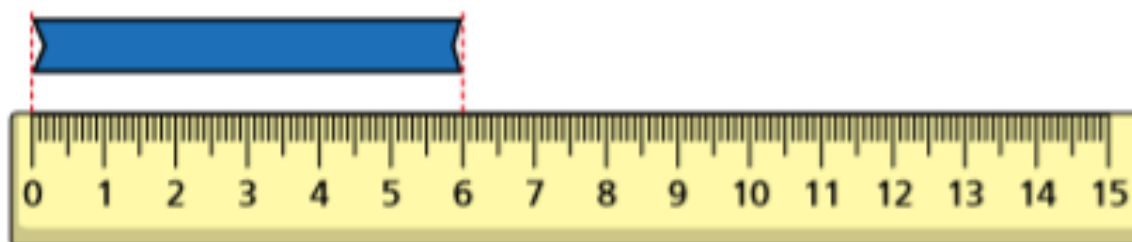
My tower is taller than Whitney's, but shorter than Mo's.

How long could Eva's tower be?  cm

Is there more than one answer?



2 a) How long is the blue ribbon?



The blue ribbon is  cm long.

b) How long is the red ribbon?

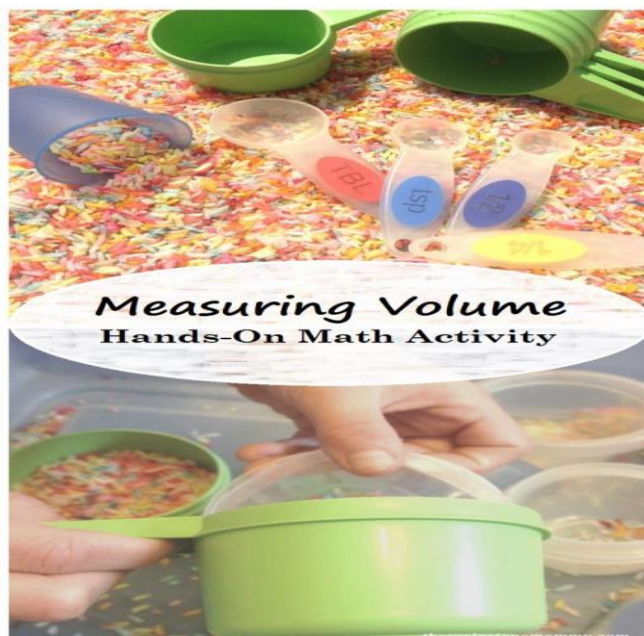


The red ribbon is  cm long.

c) Which piece of ribbon is longer?

The \_\_\_\_\_ ribbon is longer.

## Task 5: Measuring volume



## Measuring Volume Activity

### Materials Needed:

- Dry Rice or Beans
- Measuring Cups
- Plastic Containers of Different Shapes and Sizes
- Measuring Spoons (optional)
- Large Shallow Container (optional)

To create an invitation to explore measurement, pour the rice into a large, shallow container and add measuring cups, spoons, and several small plastic containers of various sizes.

Don't have a large enough container? Just pour the rice into a container wide enough to scoop from.

Setting it up on a tablecloth will help with clean-up.

## Measuring Cup Activities

You can use your measuring volume math station for several days.

### Day 1:

- Allow the kids to freely explore the containers, pouring rice from one to the next.
- Listen in as they comment about how many of the smaller containers, they thought it would take to fill a larger one.

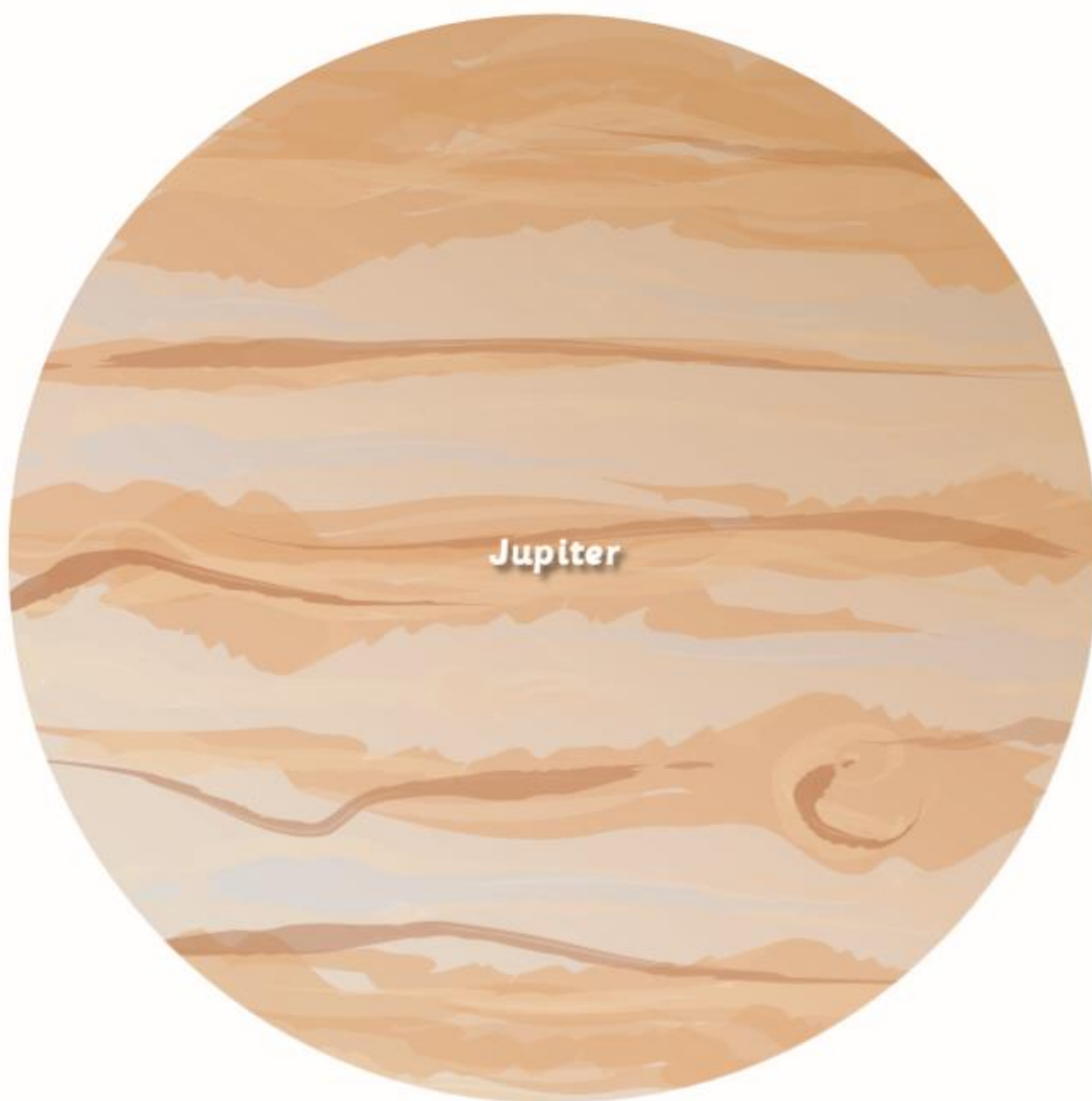
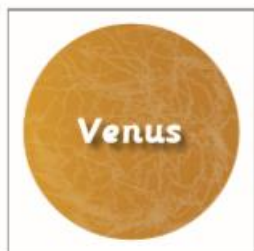
- Eventually a few small toys can be added to the bin, all part of the learning through play experience.

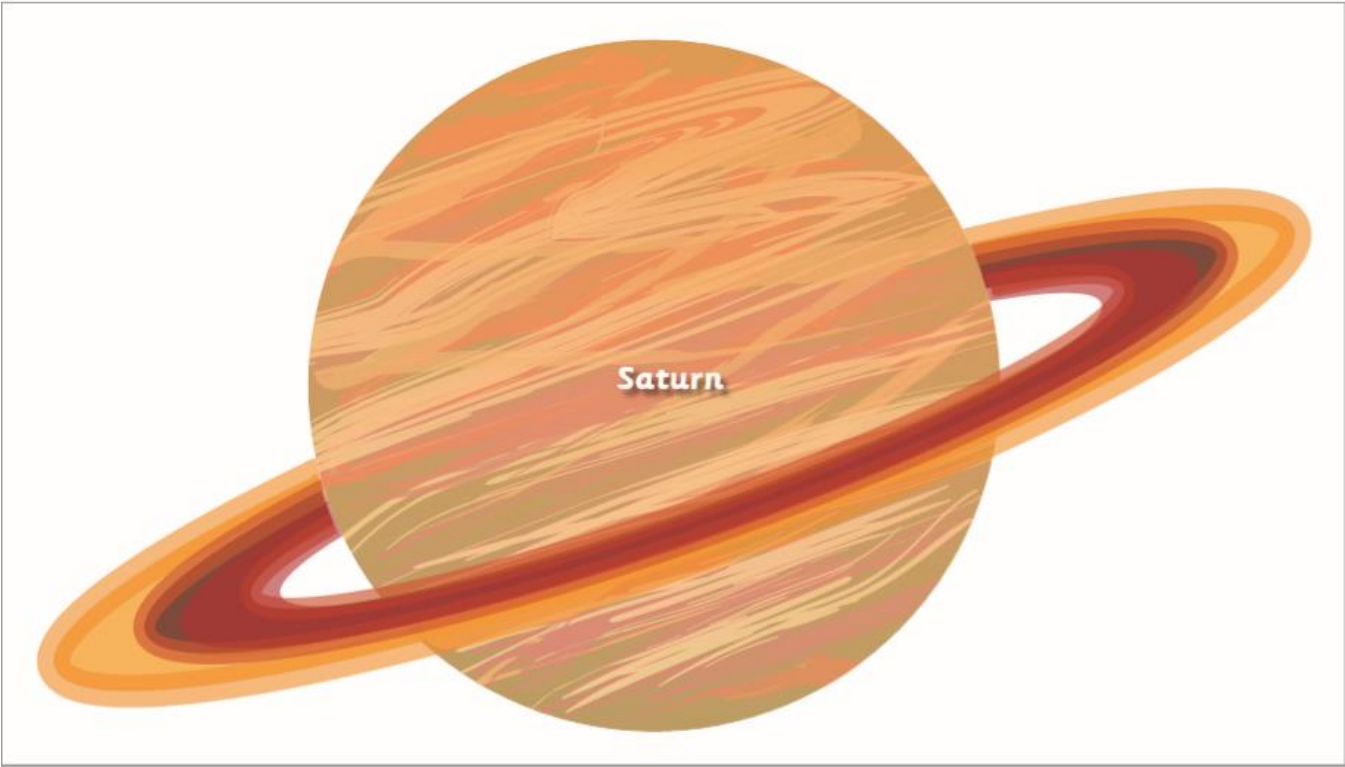
## Day 2:

- The next day, set the math station up a bit differently, placing all the rice into a smaller container that the kids can scoop out of. The other containers and measuring cups are placed nearby.
- To introduce the idea of measuring volume, ask them to figure out which of the containers could hold the most rice.
- Ask them to compare different pairs of containers to figure out which one would hold the most.
- They may be surprised to discover several differently shaped containers can hold the same amount.
- Allow them to continue to explore on their own
  
- They were surprised to discover several differently shaped containers that held the same amount.
- Allow them to continue to explore on their own
- Allow the kids to use coloured water to explore measurements. This is great to do outside on a warm day or take the activity to the bathtub.
- Try other units of measurement. How many cups does it take to fill a pint container? What about a litre or a gallon?
- Take the measuring to a new level and add in weights. Use a kitchen scale to find out how much a scoop of rice weighs. Does a scoop of water weigh the same?

This simple hands-on **measuring volume activity** is a fun way to help kids visualise measurements and fractions.

Task 6: Ordering sizes. You can print these out and cut them out to order them, or you can draw them out on paper in the size order you think they are.







. Task 8: Comparing weights

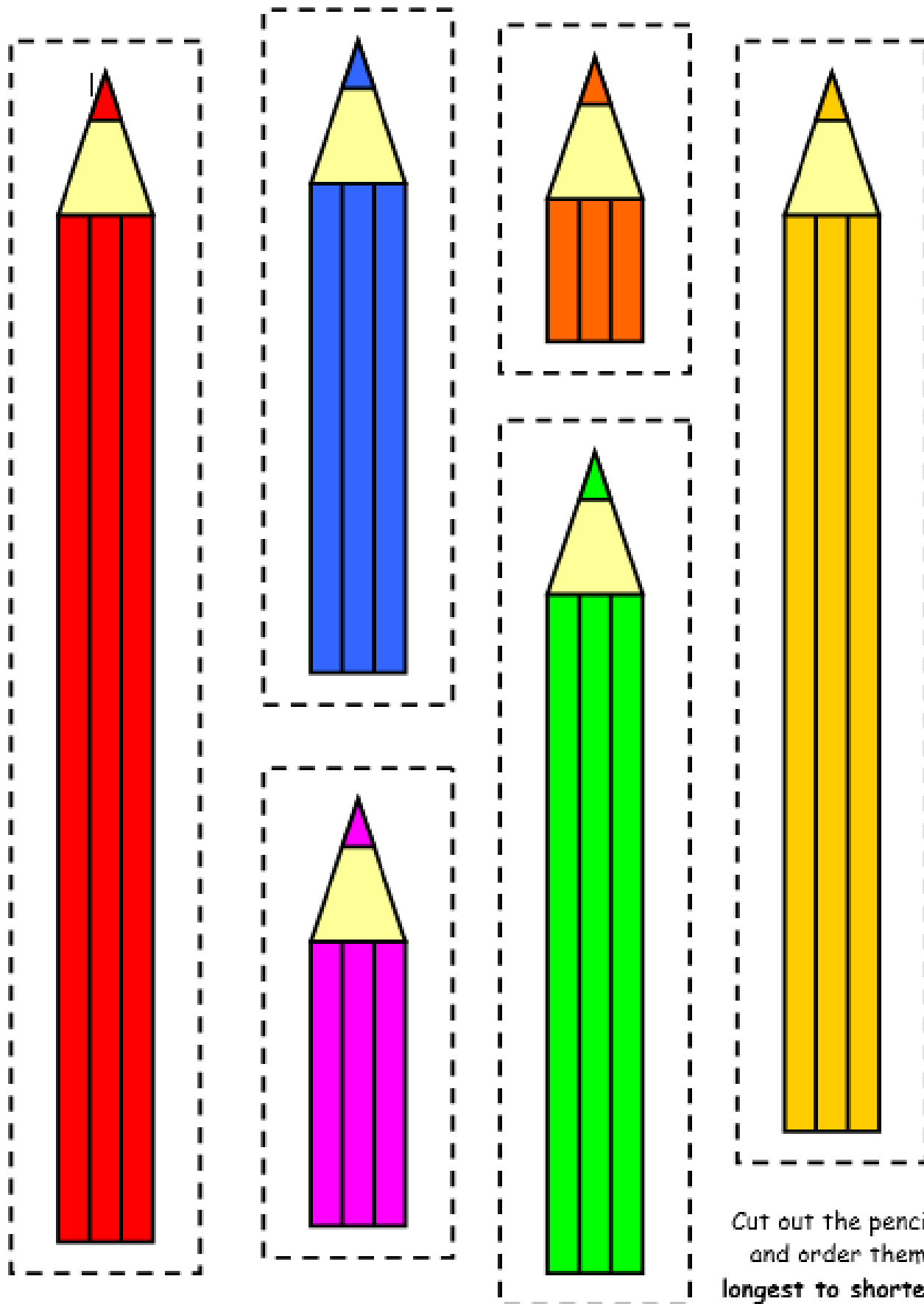
 <p>object</p>	 <p>compare - what is it heavier than</p>	 <p>compare - what it it lighter than</p>
 <p>example baked beans</p>	 <p>lemon</p>	 <p>fizzy drink</p>

Task 9: Measuring and ordering lengths. Use your ruler to measure the scarves. Can you order them from shortest to longest? Write the order of lengths underneath. If you want to print them out and cut them, you can order the lengths.





Task 10: Can you measure the pencils and put them in the correct order?



Task 11: Can you give all the children the correct volume of drink?



Task 12: Can you think about how much liquid each container will hold. If you have these at home, you can ask mum or dad to let you try them out.

## More Than, Less Than Capacity

Pour water from each object below to compare their capacity.

Write 'more than' or 'less than' to complete the sentences.



The ice cream tub holds \_\_\_\_\_



the plastic cup.



The bucket holds \_\_\_\_\_



the book tray.



The plastic cup holds \_\_\_\_\_



the water bottle.



The bowl holds \_\_\_\_\_



the pencil tin.



The book tray holds \_\_\_\_\_



the ice cream tub.