

### Measuring Length:

Color	My prediction	My measurement
red		
purple		
dark green		
brown		
orange		

### Adding lengths:

red + purple =
dark green + purple =
brown + red =
dark green + red =
orange + red =
orange + purple =

## Comparing lengths

< , = , >

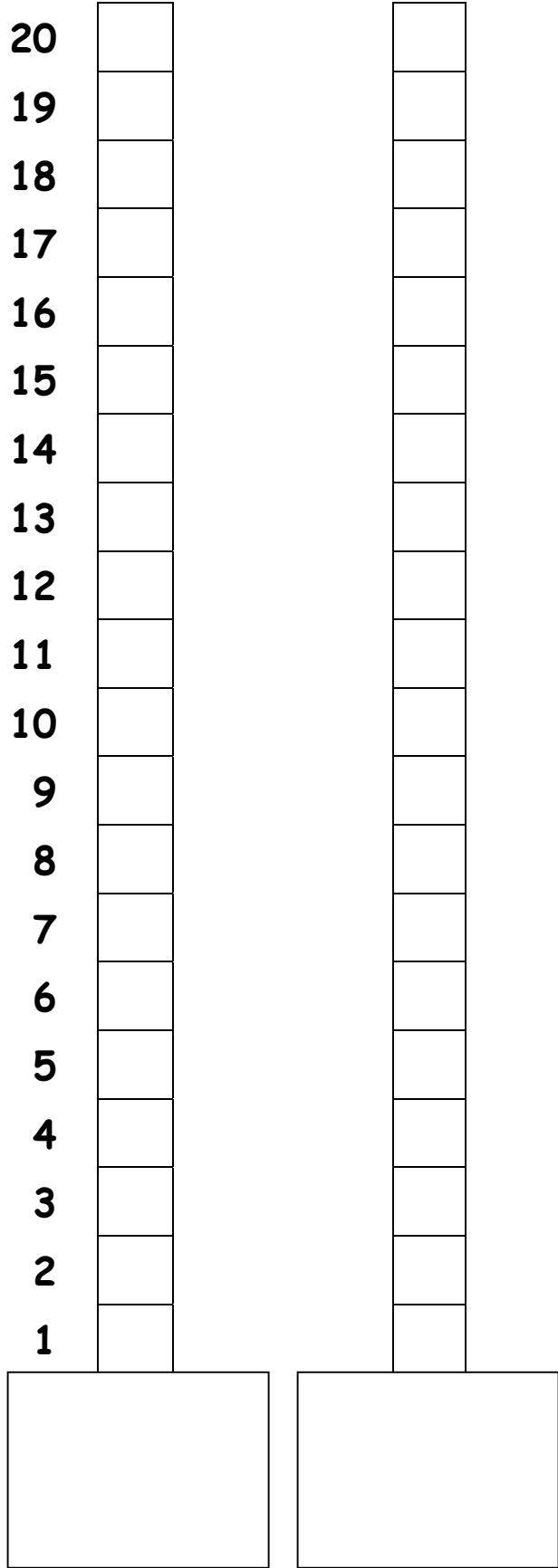
dark green + purple		red + orange
orange + purple		dark green + brown
orange + dark green		brown + purple
red + orange		purple + brown
dark green + purple		brown + red

## Adding centimeters:

<p>red _____ cm</p>	+	<p>purple _____ cm</p>	=	<p>dark green _____ cm</p>
<p>purple _____ cm</p>	+	<p>dark green _____ cm</p>	=	<p>orange _____ cm</p>
<p>dark green _____ cm</p>	+	<p>red _____ cm</p>	=	<p>brown _____ cm</p>
<p>brown _____ cm</p>	+	<p>red _____ cm</p>	=	<p>orange _____ cm</p>

# Measuring Mass

Mass (# of cubes)



# Estimating Mass



> 1 gram



= 1 gram



< 1 gram

# Measuring Mass



$> 1$  gram



$= 1$  gram



$< 1$  gram

## Comparing Masses:

< , = , >

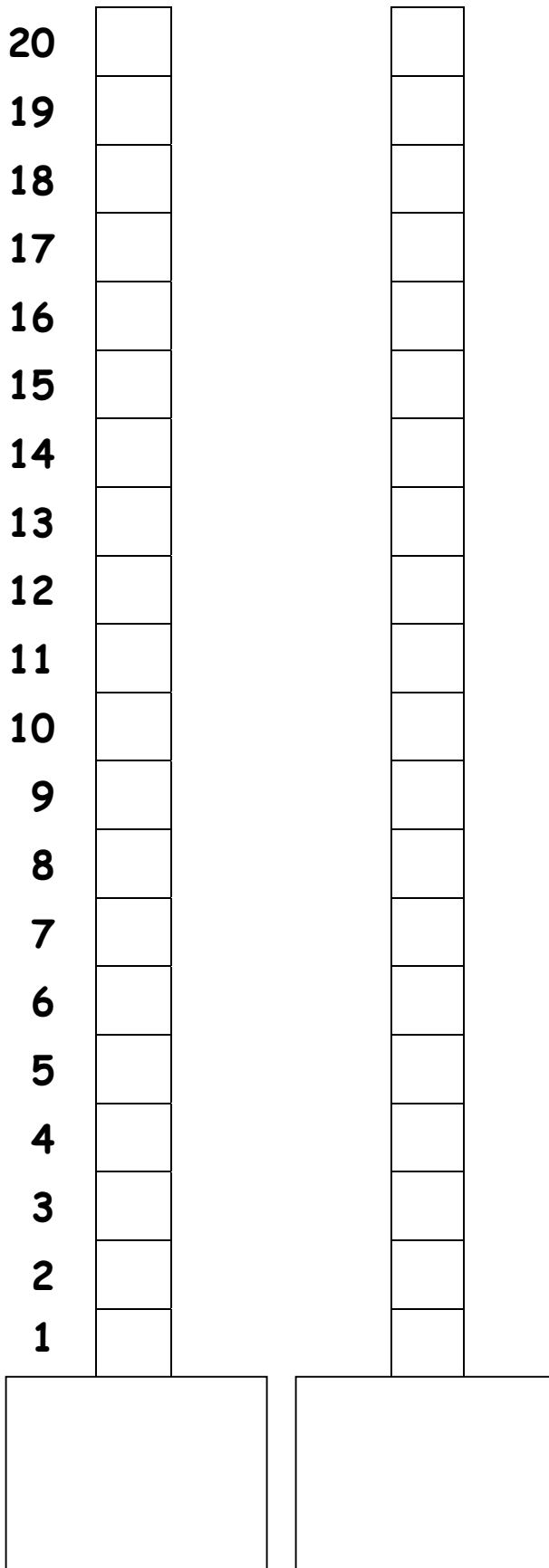
10 toothpicks		10 grams
6 bottle caps		21 grams
5 marshmallows		6 grams
4 clothespins		15 grams
5 cotton balls		5 grams
5 bottle caps		8 grams
5 toothpicks		1 gram
2 paper clips		1 gram

## Measuring masses:

Object	My prediction	My measurement
crayon		
scissors		
ruler		
marker		
glue stick		

# Measuring Volume

Volume (# of mL)



## Station 1

Which one holds more?  
Draw and label your prediction.

Pour 300 mL of water into each.  
What did you find out?

## Station 2

Which one holds more than 700 mL?  
Draw and label your prediction.

Pour 700 mL of rice into each.  
What did you find out?

## Station 3

How many cups of rice will each bowl hold?  
Draw and label your prediction.

Fill each bowl with cups of rice.  
What did you find out?

## Station 4

Which one will hold 600 mL?  
Draw and label your prediction.

Pour 600 mL of water into each.  
What did you find out?

## Problem-Solving Activity 1

Pack the sack with as much mass as possible.  
Do not use more than 3 of the 6 items.

Which 3 items will you pick?

## Problem-Solving Activity 2

Jack is making gifts for his friends. He has 25 cm of blue ribbon, 29 cm of yellow ribbon, and 32 cm of green ribbon.

Which color of ribbon should Jack use for the square shape?

Which color of ribbon should Jack use for the triangle shape?

Which color of ribbon should Jack use for the circle shape?

## Problem-Solving Activity 3

Put 125 mL of cold water into Cup A.  
Put 125 mL of tap water into Cup B.  
Put 125 mL of warm water into Cup C.

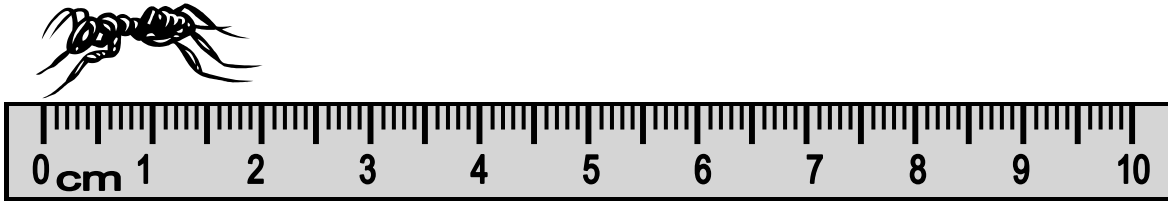
Add 1 drop of color to each cup.  
What changes do you see?  
Why did these changes happen?

## Problem-Solving Activity 4

8 people are coming to your birthday party.  
You want each person to have 1 full glass  
of juice.

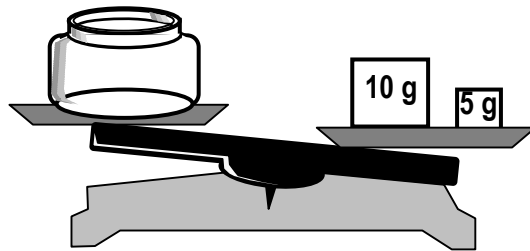
Which bottle of juice should you buy?

## Units Matter Assessment



How long is the bug?

- 1 centimeter
- 2 centimeters
- 2 milliliters



What is the mass of the jar?

- 15 grams
- more than 15 grams
- less than 15 grams

mass (# of grams)

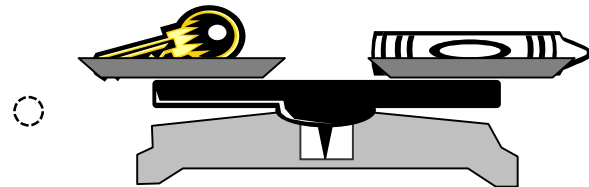
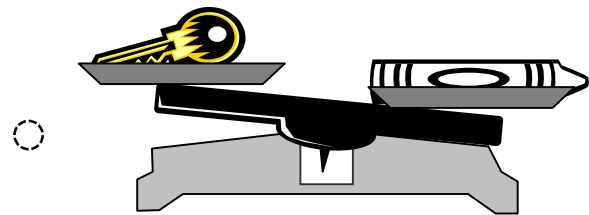
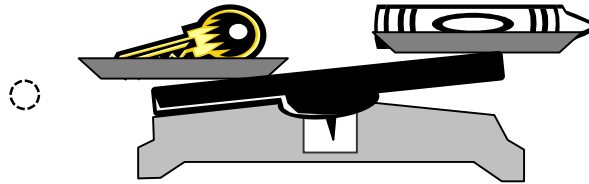
crayon 



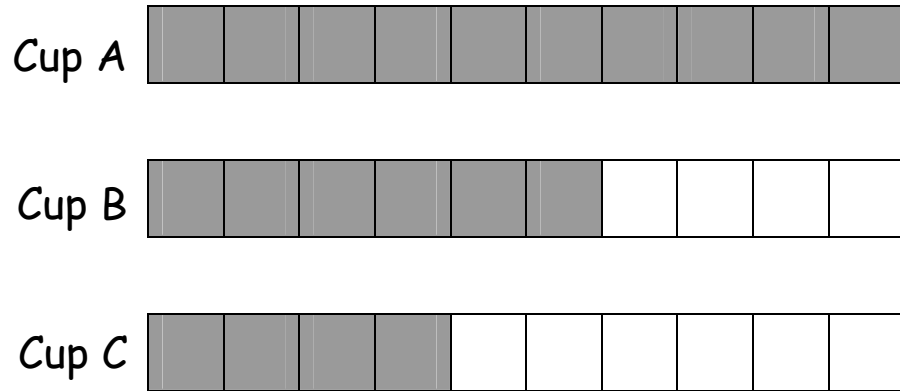
key 



Study the graph. Which picture shows how the balance will look after you put the crayon and the key on the pans?

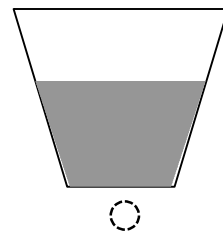
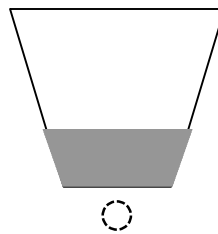
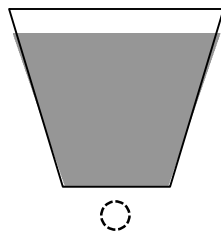


volume (# of mL)



Study the graph.

Which picture below shows how much water is in Cup B?



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In which cup will the ice cube melt the fastest?

