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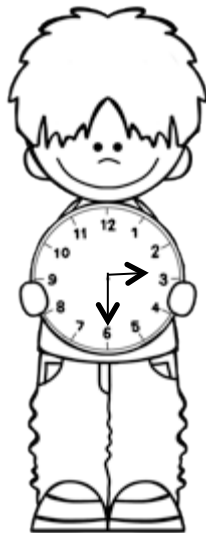
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Answer Keys

- Pgs. 60-100
not included for problems
where answers will vary

Measurement



By: _____

Elapsed Time

The measure of the amount of time that has passed.



You can use a number line to find elapsed time.

Start Time
3:10

End Time
4:35

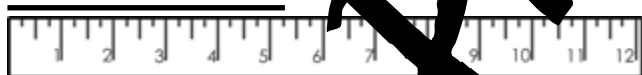


Find the elapsed time between 4:20 and 5:58.

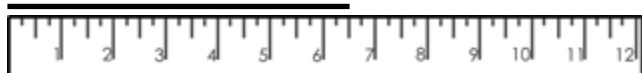


Length

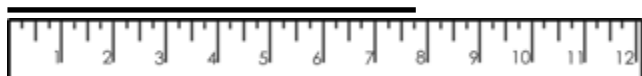
The measure of the distance something is from one point to another.



The line is $5\frac{1}{4}$ inches long.



The line is $6\frac{1}{2}$ inches long.



The line is $7\frac{3}{4}$ inches long.

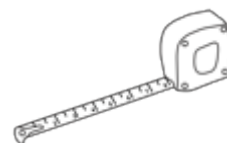
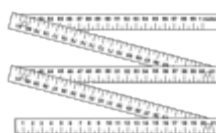


How long is the line above? _____

Length Units of Measure

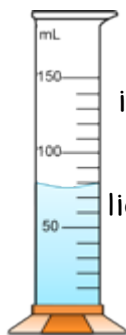
| Customary | Metric |
|-----------------|-----------------|
| inch | centimeter |
| foot=12 inches | decimeter=10cm |
| yard=3 feet | meter=100 cm |
| mile=5,280 feet | kilometer=1000m |

Tools

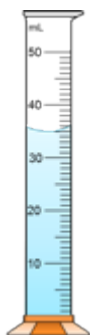


Volume

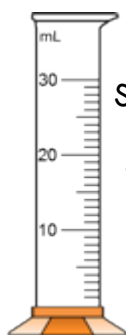
The amount of space an object occupies.



Count by increments of ten to find the liquid volume of this beaker.



Count by increments of one to find the liquid volume of this beaker.



Shade in the beaker to show 25 ml.



Shade in the beaker below to show 15 ml.

Volume Units of Measure

Metric System

milliliter-about 20 drops of water, less than a teaspoon

liter-1,000 milliliters. drinks are often sold in liters

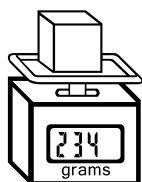


Mass

The measure of how much matter in an object.

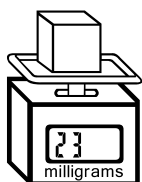


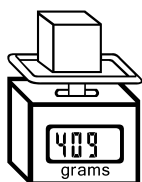
The block has a mass of 687 milligrams.



The block has a mass of 234 grams.

What is the mass of the blocks below?





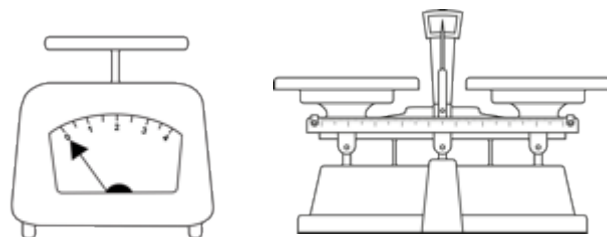
Mass Units of Measure

Metric System

gram-a small paperclip has a mass of one gram.

kilogram-1,000 grams, a dictionary has a mass of one kilogram.

Tools



Name _____

Date _____

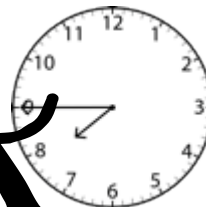
Elapsed Time to the Hour & 5 Minute Increments



Find the elapsed time between the clocks below.



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____



Elapsed Time: _____

Name _____

Date _____



Elapsed Time to the Hour & 5 Minute Increments

Find the elapsed time between the clocks below.

1:35

4:05

Elapsed Time: _____

3:20

7:35

Elapsed Time: _____

4:40

8:35

Elapsed Time: _____

1:05

9:55

Elapsed Time: _____

2:10

6:35

Elapsed Time: _____

5:40

9:05

Elapsed Time: _____

7:25

11:40

Elapsed Time: _____

8:25

10:35

Elapsed Time: _____

Name _____

Date _____

Use the Clock Minutes



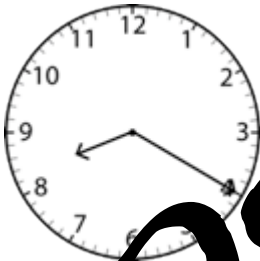
What time will it be in 25 minutes?



What time will it be in 28 minutes?



What time will it be in 35 minutes?



What time will it be in 55 minutes?



What time will it be in 35 minutes?



What time will it be in 19 minutes?



Name _____

Date _____

Use the Clock

Hours & Minutes



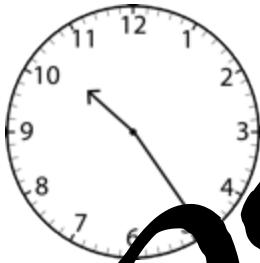
What time will it be in 1 hour and 25 minutes?



What time will it be in 1 hour and 15 minutes?



What time will it be in 2 hours and 25 minutes?



What time will it be in 3 hours and 55 minutes?



What time will it be in 4 hours and 35 minutes?



What time will it be in 3 hours and 5 minutes?



Name _____

Date _____

Use the Clock Going Backward



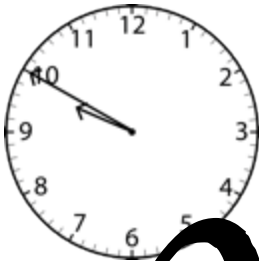
What time was it 1 hour and 25 minutes ago?



What time was it 1 hour and 15 minutes ago?



What time was it 2 hours and 25 minutes ago?



What time was it 3 hours and 55 minutes ago?



What time was it 2 hours and 20 minutes ago?



What time was it 1 hour and 5 minutes ago?



Name _____

Date _____

Complete the Schedule

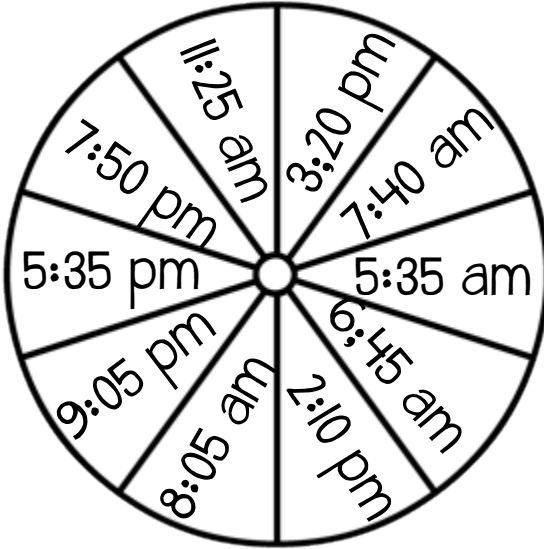
Use the train schedule below to calculate the missing times.

| Destination | Departure Time | Arrival Time | Elapsed Time |
|-----------------|----------------|--------------|-----------------------|
| Orlando, FL | 7:15 | 10:23 | |
| Macon, GA | 7:30 | 11:10 | |
| Chattanooga, TN | 8:45 | | 75 minutes |
| Boston, MA | | 11:50 | 1 hour 40 minutes |
| Columbia, SC | 8:25 | | 1 hour 25 minutes |
| Hollywood, CA | | 7:00 | 4 hours 45 minutes |
| Austin, TX | 8:35 | | 2 hours 30 minutes |
| Seattle, WA | 5:05 | 12:35 | |
| Boulder, CO | 9:20 | | 2 hours 25 minutes |
| Albany, NY | | 4:40 | 50 minutes |
| Little Rock, AK | 1:25 | | 5 hours |

Name _____

Date _____

ELAPSED TIME



Play this game with a partner. Each person uses the spinner to land on a time. The partner who spins the earliest time writes the time down first in the left column. The partner who spins the later time writes the time down in the right column. Work together to find the elapsed time of the two times.

| Earliest Time | Latest Time | Elapsed Time |
|---------------|-------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |

Name _____

ELAPSED TIME

Word Problems



1. Macy started eating lunch at 11:25. She finished eating at 11:57. How long did Macy eat lunch?

2. Mickey took a nap for 1 hour and 55 minutes. If he fell asleep at 1:15, what time did he wake up?

3. Briley studied for 2 hours and 5 minutes. If she finished studying at 6:20, what time did she begin studying?

4. Dalton's baseball practice started at 4:25 and ended at 6:55. How long was Dalton's baseball practice?

5. Lee started playing a video game at 2:45 and finished playing the game at 4:05. How long did he play the game?

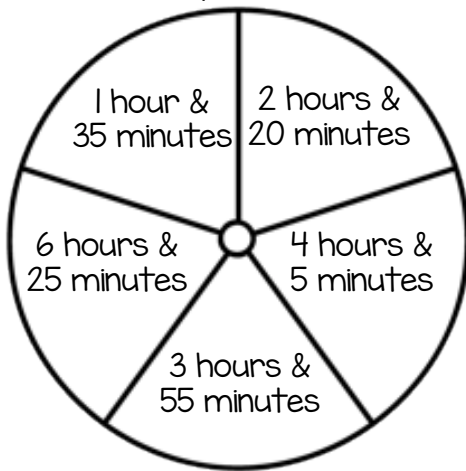
6. Jenn's soccer game lasted 1 hour and 10 minutes. If the game started at 5:15, what time did the game end?

Name _____

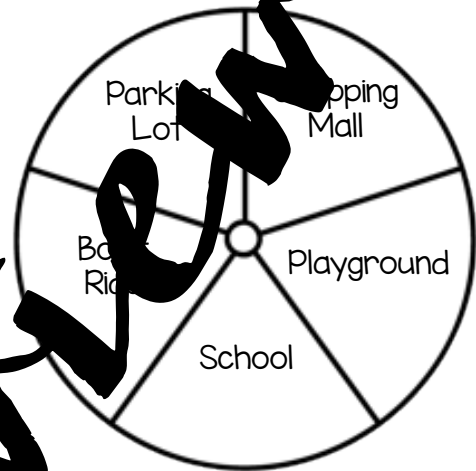
Spin A Word Problem

Write and solve two elapsed time word problems. Use one spinner to determine the setting of your word problem. Use the other spinner to find the total elapsed time to be included in your word problem. The total elapsed time should be the answer to your question.

Elapsed Time



Setting



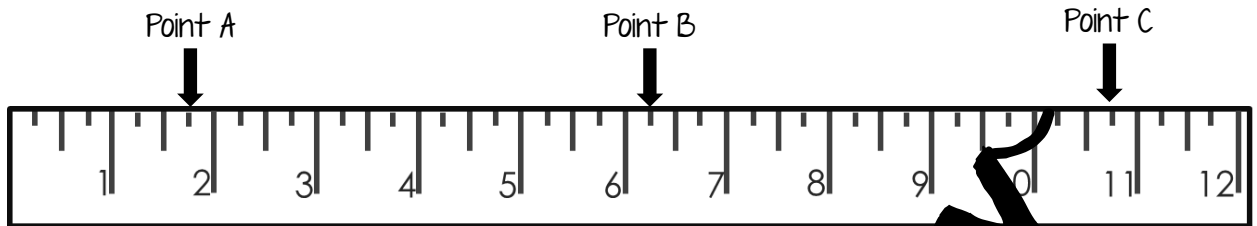
Preview

Name _____

Date _____

Reading a Ruler-Fourth Inch

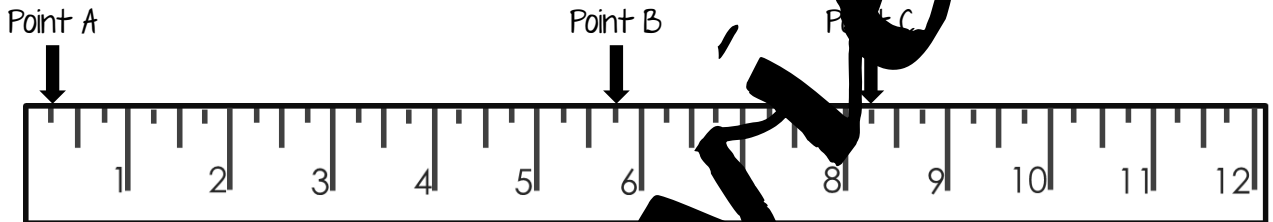
What is the length of each point on the rulers below?



Point A- _____

Point B- _____

Point C- _____



Point A- _____

Point B- _____

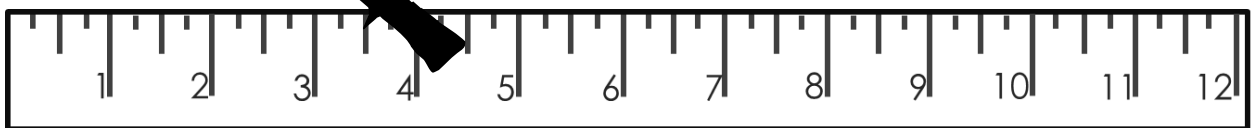
Point C- _____

Use an arrow to identify the following measurements on the rulers below.

Point A- $2\frac{3}{4}$ inch

Point B- $4\frac{1}{4}$ inches

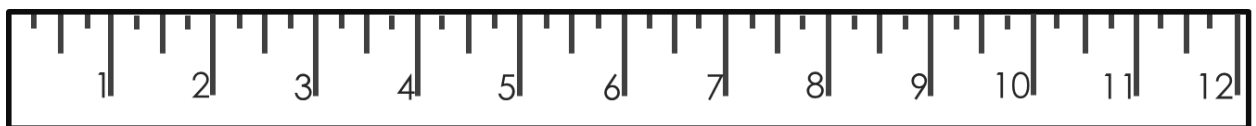
Point C- $9\frac{1}{4}$ inches



Point A- $3\frac{3}{4}$ inches

Point B- $5\frac{3}{4}$ inches

Point C- $10\frac{1}{4}$ inches



Name _____

Date _____

Find a Length



What can you find that measures the lengths below?
Find as many different things as possible!

1 inch

6 inches

12 inches

2 $\frac{1}{2}$ inches

8 $\frac{1}{4}$ inches

4 $\frac{3}{4}$ inches

Preview

Name _____

Date _____

Measure It!



Measure the length of each item below to the nearest one-fourth inch.

Book

Scissors

Glue Bottle

Glue Stick

New Crayon

Box of Crayons

Length of Notebook
Paper

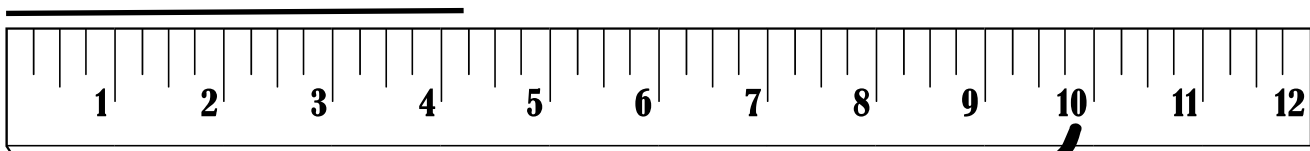
Width of Notebook
Paper

Name _____

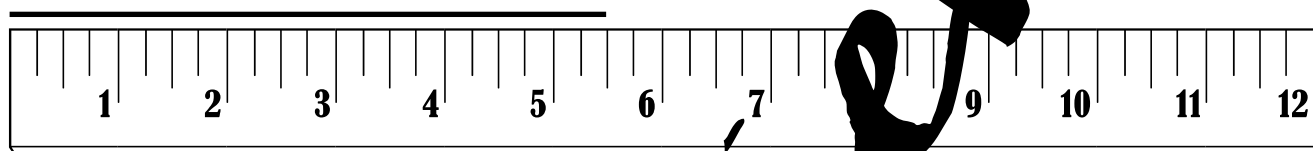
Date _____

Measure the Line

Use the rulers to measure the lines below.



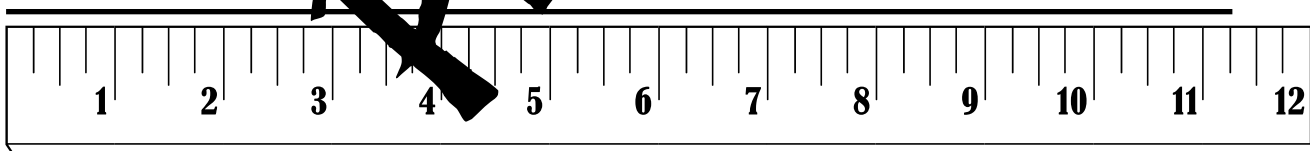
_____ inches



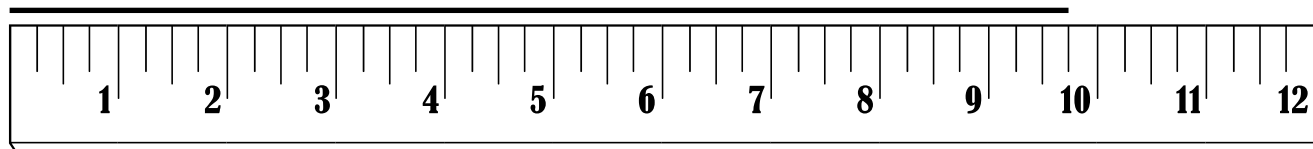
_____ inches



_____ inches



_____ inches



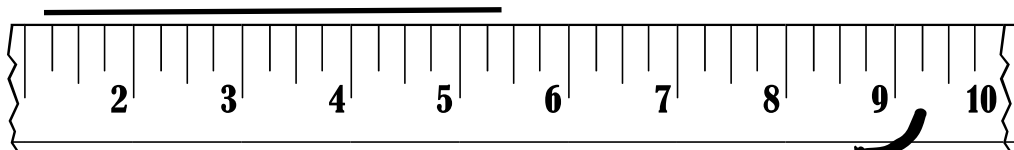
_____ inches

Name _____

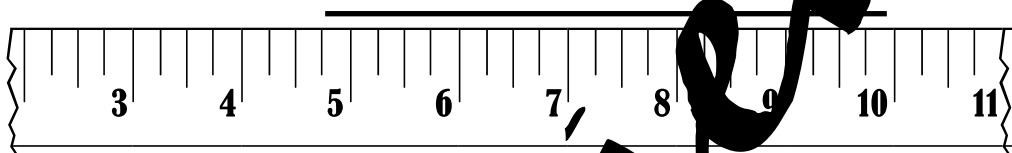
Date _____

Broken Rulers-Part 1

Measure each line using the broken ruler.



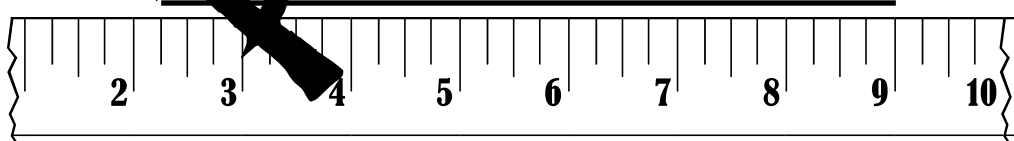
_____ inches



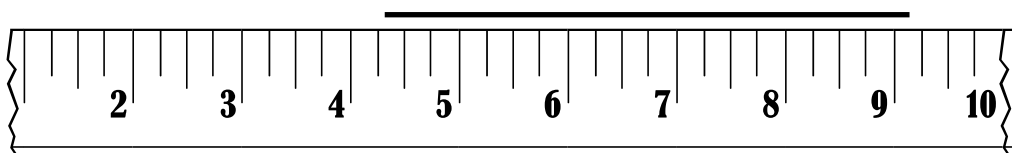
_____ inches



_____ inches



_____ inches



_____ inches

Name _____

Date _____

Label the Ruler

Label the ruler below with inches, half-inches, and quarter-inches.



Explain how and why you used fractions when labeling your ruler. How could you have labeled the half-marks differently?

Name _____

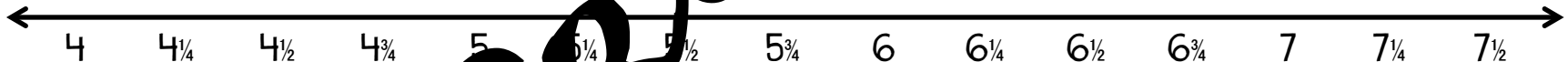
Date _____

Pencil Line Plot

Measure the length of ten pencils to the nearest $\frac{1}{4}$ inch and record your measurements on the table below. Then, create a line plot to show your data. At the bottom of the page, ask two questions that can be answered using the line plot. Do not record lengths of pencils that are smaller than 4 inches. It's okay if some pencils have the same length.

| Length of Pencils | | | | | | | | | | |
|-------------------|--|--|--|--|--|--|--|--|--|--|
|-------------------|--|--|--|--|--|--|--|--|--|--|

Line plot



1. _____

2. _____

Name _____

Date _____

Make a Line Plot

Select an object to measure that you will be able to find in different lengths. For example, you could measure the height of books. Measure ten of that item to the nearest one-fourth inch and record your measurements. Create a line plot to show your data. At the bottom of the page, ask two questions that can be answered using the line plot.

It's okay if some objects have the same length.

| Length of Object | | | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |

Line Plot



1. _____

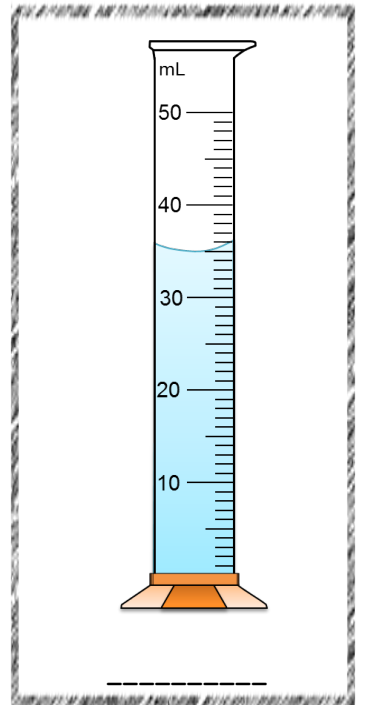
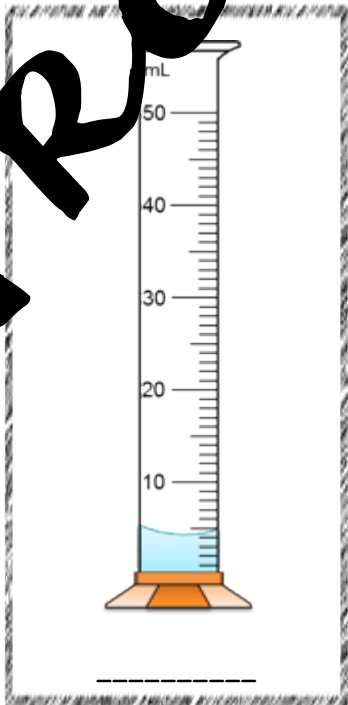
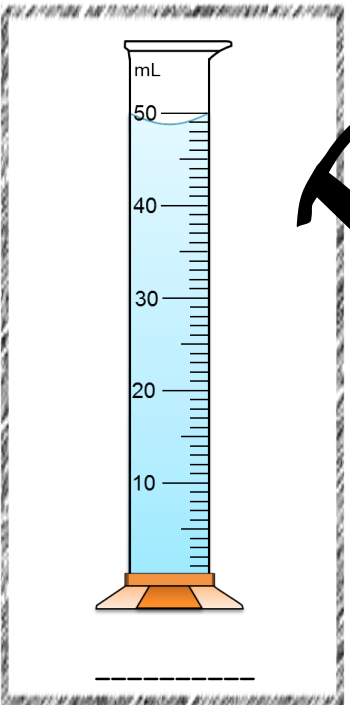
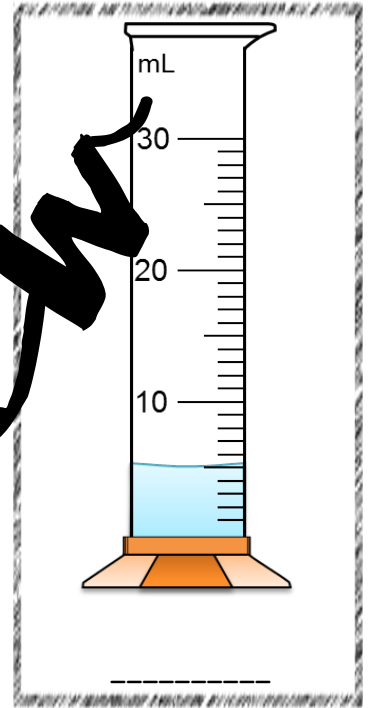
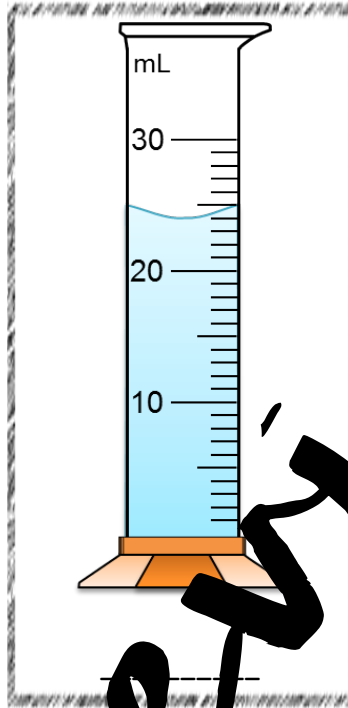
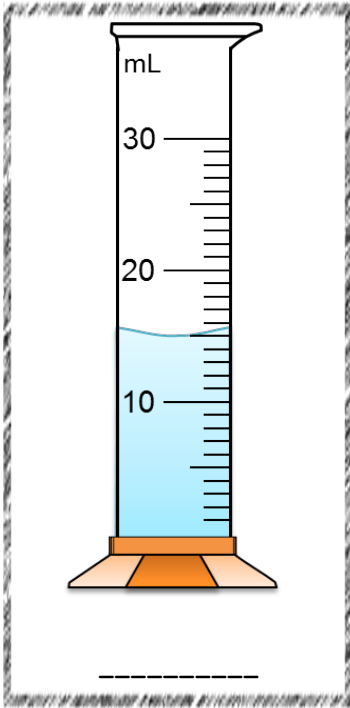
2. _____

Name _____

Date _____

Read the Beaker **Part I**

How many mL of liquid are in the beakers below?

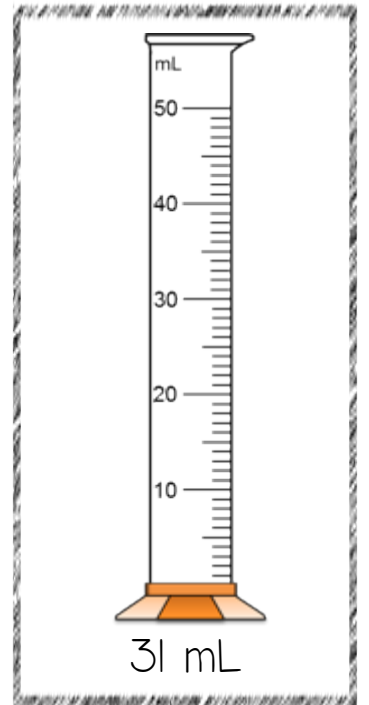
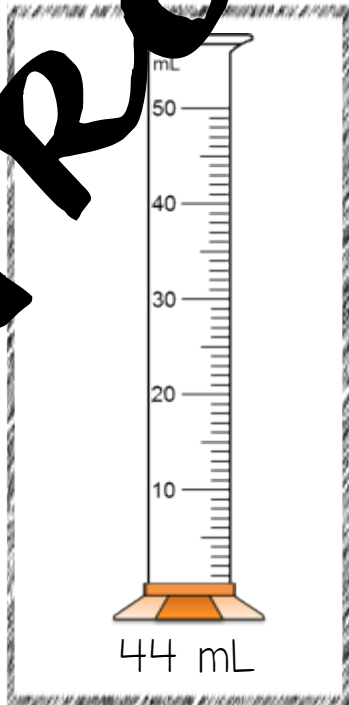
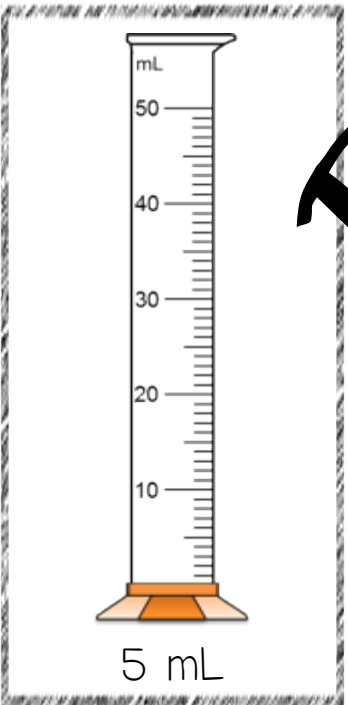
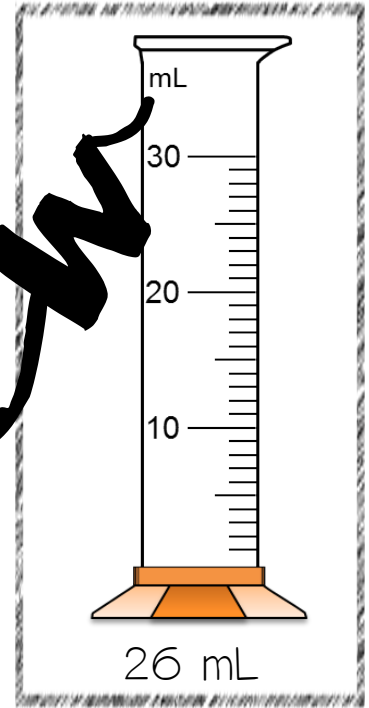
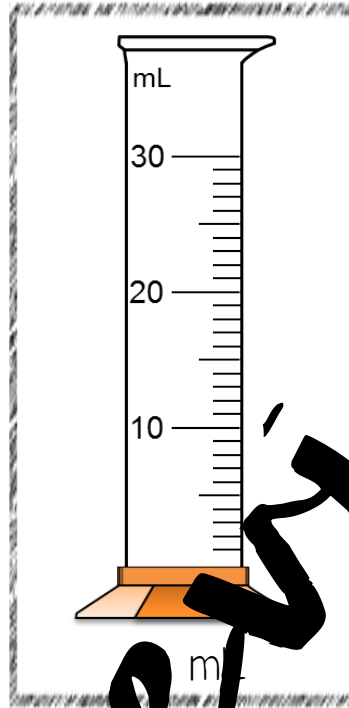
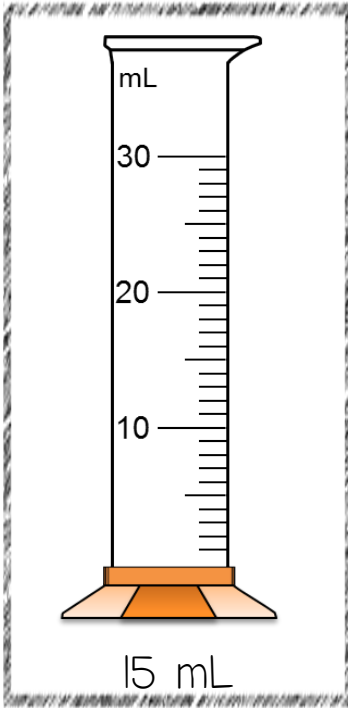


Name _____

Date _____

Color in the Beaker **Part I**

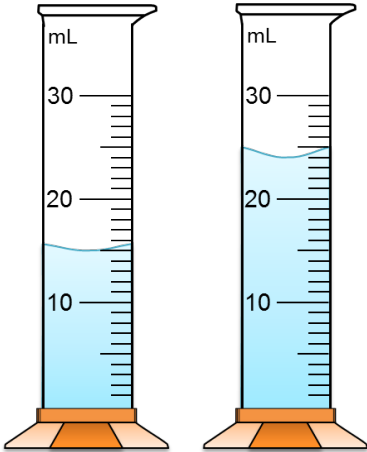
Color in the beaker to show the given mL of liquid.



Name _____

Use the Beaker

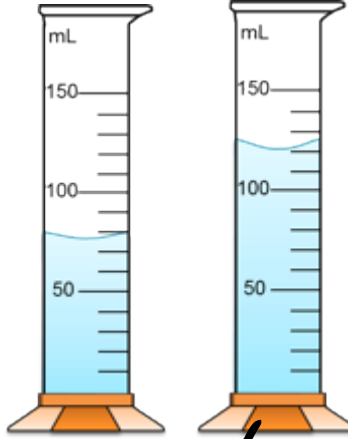
Answer the questions below.



Beaker A

Beaker B

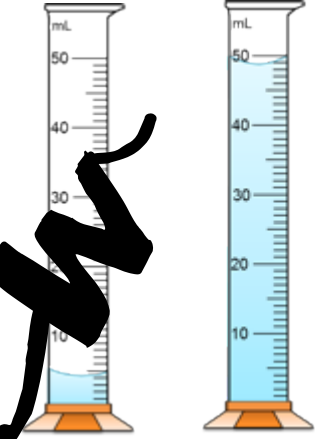
How much water was added to Beaker A to have the volume in Beaker B?



Beaker A

Beaker B

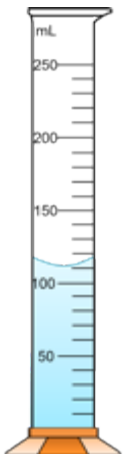
How much water was added to Beaker A to have the volume in Beaker B?



Beaker A

Beaker B

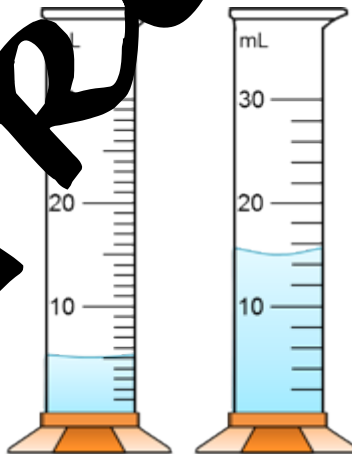
How much water was added to Beaker A to have the volume in Beaker B?



Beaker A

Beaker B

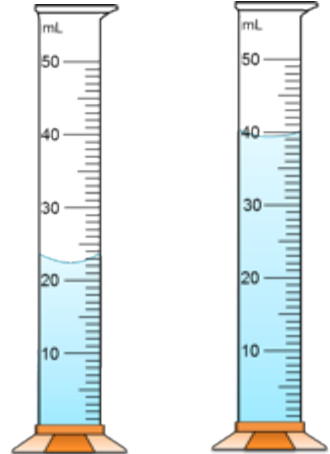
How many more mL are in Beaker B than Beaker A?



Beaker A

Beaker B

How many more mL are in Beaker B than Beaker A?



Beaker A

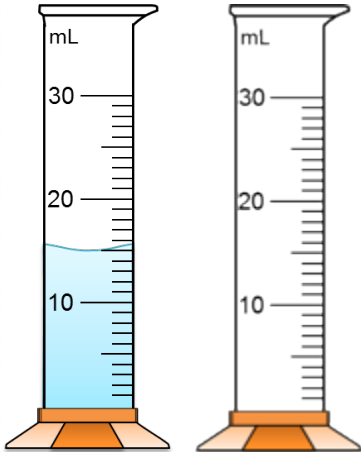
Beaker B

How many more mL are in Beaker B than Beaker A?

Name _____

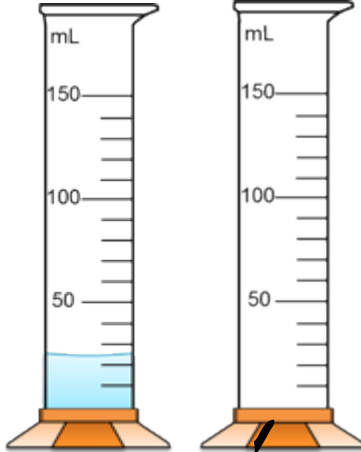
Fill in the Beaker

Answer the questions below.



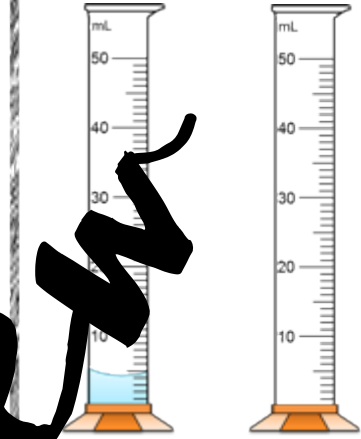
Beaker A

Abby added 10 mL of liquid to Beaker A. Shade in empty beaker to show the total mL of liquid.



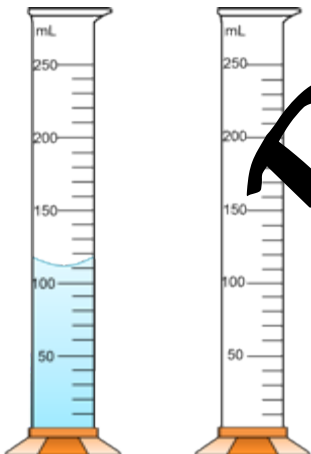
Beaker A

Brandon added 60 mL of liquid to Beaker A. Shade in the empty beaker to show the total mL of liquid Callie has.



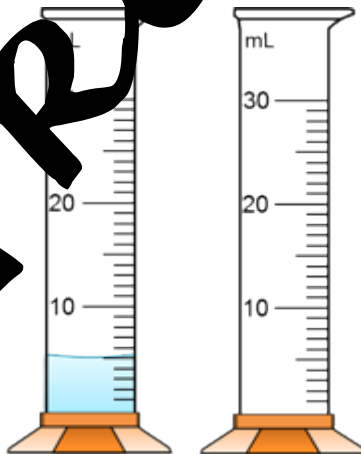
Beaker A

Callie added 36 mL of liquid to Beaker A. Shade in the empty beaker to show the total mL of liquid Callie has.



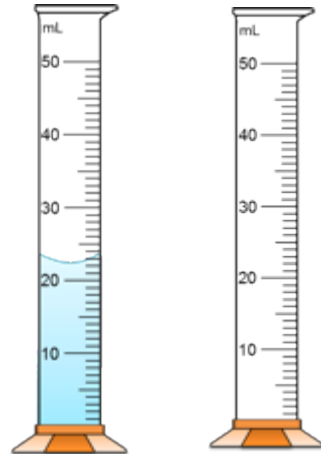
Beaker A

David added 110 mL of liquid to Beaker A. Shade in the empty beaker to show the total mL of David's beaker.



Beaker A

Erin added 15 mL of liquid to Beaker A. Shade in the empty beaker to show the total mL of Erin's beaker.




Beaker A

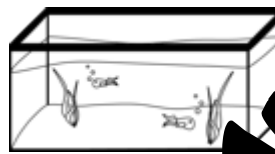
Frank added 12 mL of liquid to Beaker A. Shade in the empty beaker to show the total mL of Frank's beaker.


Name _____


Choose the Best Estimate


Circle the best estimate for the volume of the items below.


| | |
|---|--------|
|  | 100 L |
| | 20 mL |
| | 120 mL |

| | |
|--|---------|
|  | 300 L |
| | 200 mL |
| | 1,000 L |

| | |
|--|-------|
|  | 1 L |
| | 20 mL |
| | 100 L |

| | |
|---|---------|
|  | 1,000 L |
| | 190 mL |
| | 170 L |

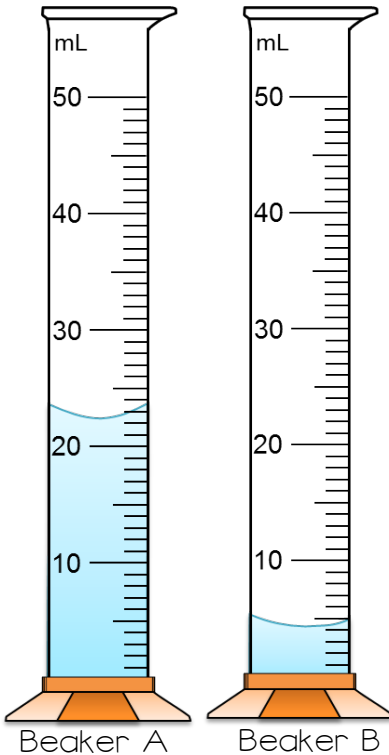
| | |
|--|----------|
|  | 3 L |
| | 9,000 mL |
| | 9,000 L |

| | |
|---|--------|
|  | 30 mL |
| | 500 mL |
| | 50 L |

Name _____

Date _____

Use the Beaker Word Problems

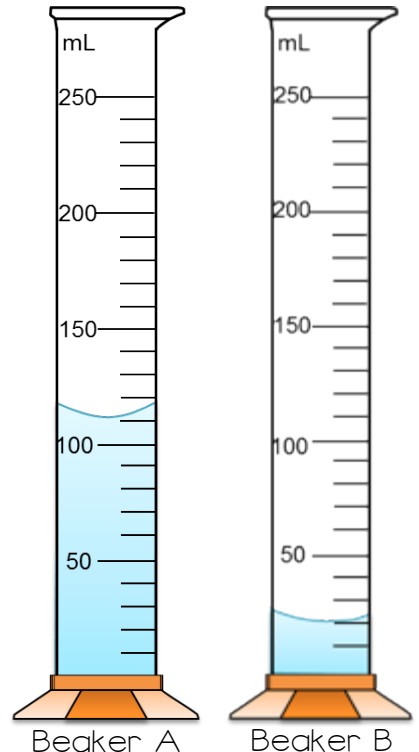


If Grayson poured 10 mL from Beaker A to Beaker B, how much liquid will be in both beakers?

If Hampton poured $\frac{1}{2}$ of the liquid from Beaker B into Beaker A, how much liquid will be in Beaker A?

What is the total volume of the two beakers?

How many more mL are in Beaker A than Beaker B?



Name _____

Volume Word Problems



Solve each word problem with a number sentence and a picture.

A cup of water has a volume of 153 milliliters, and a cup of juice has a volume of 148 milliliters, what is the total volume of the two liquids?

A pitcher of water has a volume of 700 milliliters, and a glass of water has a volume of 128 milliliters. How many more milliliters is the pitcher of water than the glass of water?

Four cups have a total volume of 400 milliliters. If each cup has the same volume, what is the liquid volume of each cup?

A juice box has a liquid volume of 80 milliliters. What is the total volume of six juice boxes?

Name _____

2-Step Volume Word Problems



Solve each word problem with a number sentence and a picture.

Jax had two cups of water. In Cup A there was 50 mL of water. In Cup B there was 20 mL of water. If he poured half of the water from Cup A to Cup B, how much water would be in each cup?

Katie has two beakers of liquid. If she has 282 mL in one beaker and 128 in another beaker, how much more liquid does she need to have after of the liquid?

Lucy has one liter of water. She spills 200 mL of the water. Then she decides to split the remaining water even into two beakers. How many mL will be in each beaker?

Matt had one beaker of water with 25 mL of water. He had another beaker with 29 mL of water. He combined the two beakers of water, and then he split the total amount of water into six equal groups. How many mL of water is in each group?

Name _____

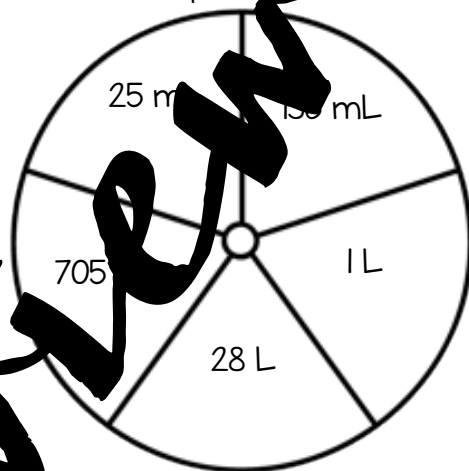
Spin A Word Problem

Write and solve two volume word problems. Use one spinner to determine the setting of your word problem. Use the other spinner to find the total volume to be included in your word problem. The total volume should be the answer to your question.

Setting



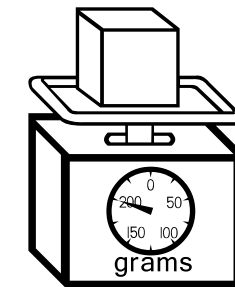
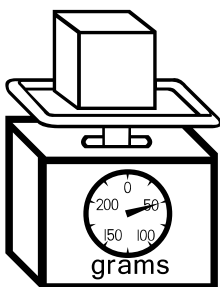
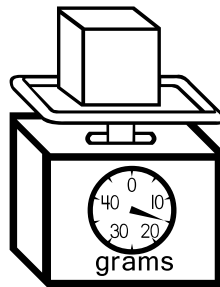
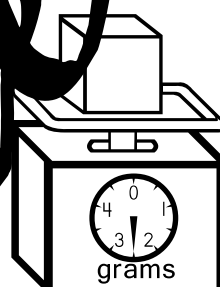
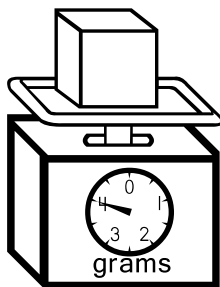
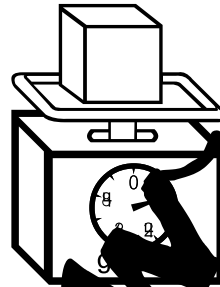
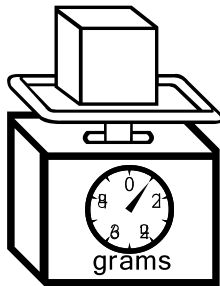
Liquid Volume



Preview

Name _____

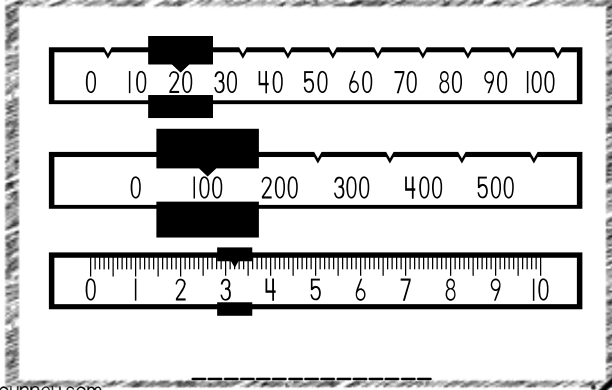
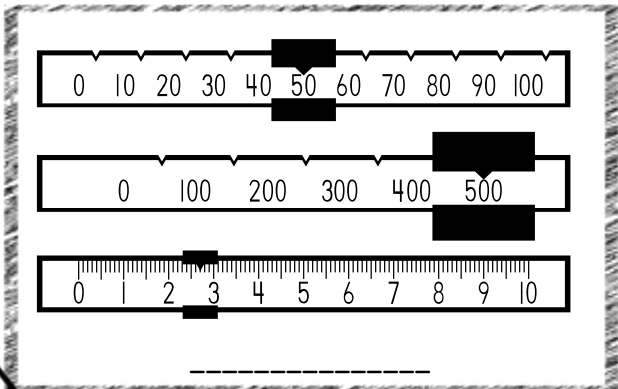
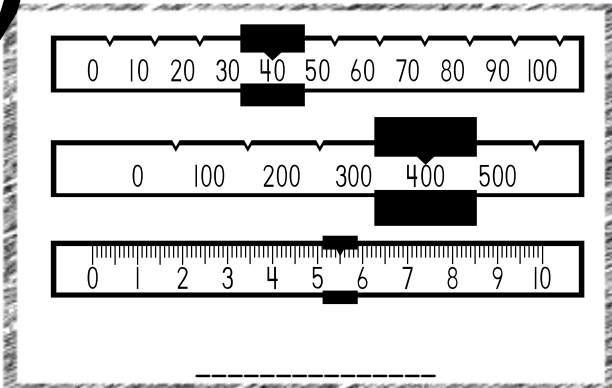
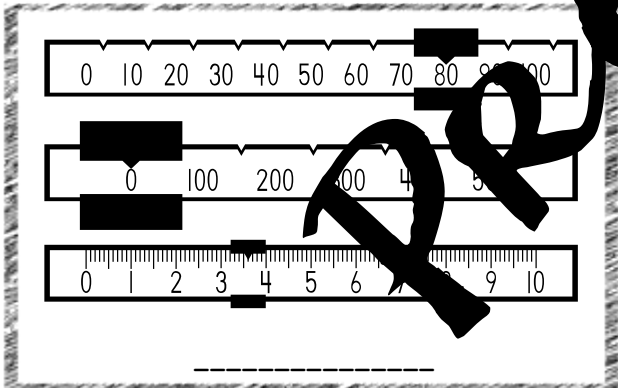
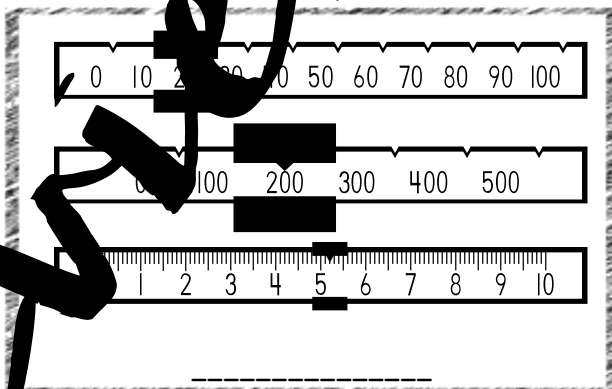
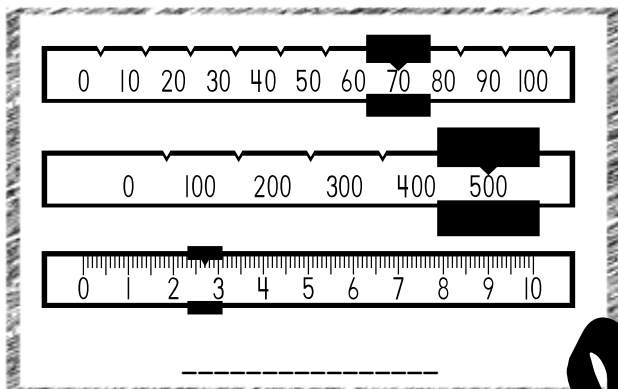
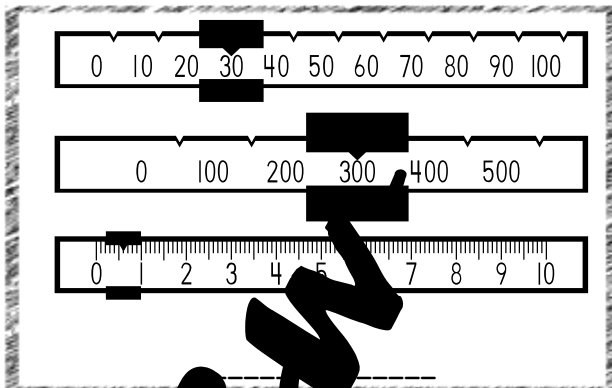
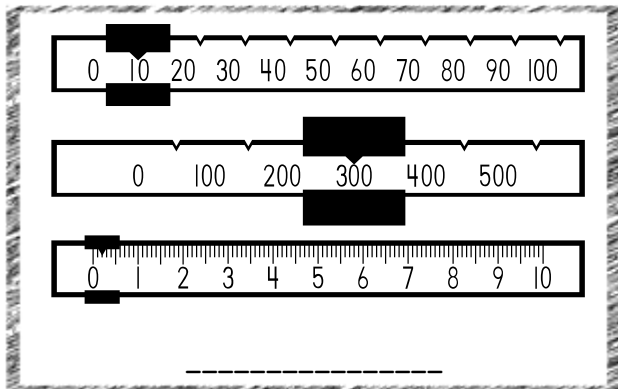
PLATFORM SCALES



Name _____

TRIPLE BEAM SCALES

What mass do the triple beam scales show?

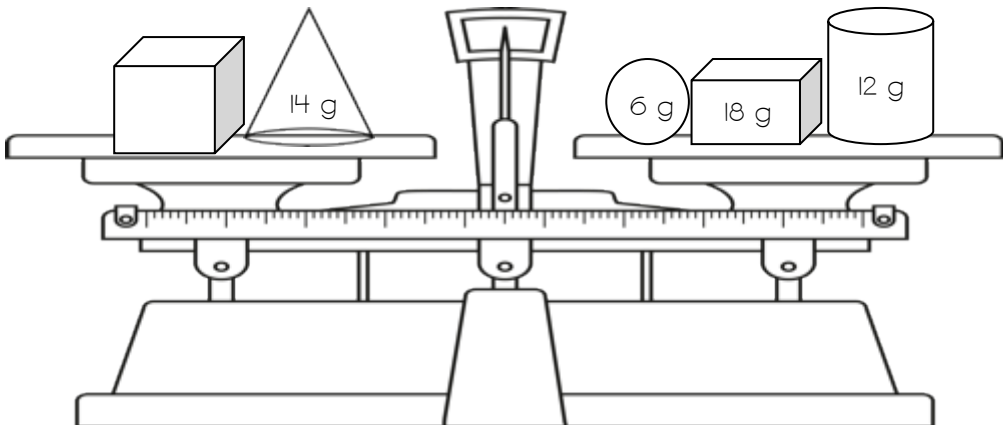
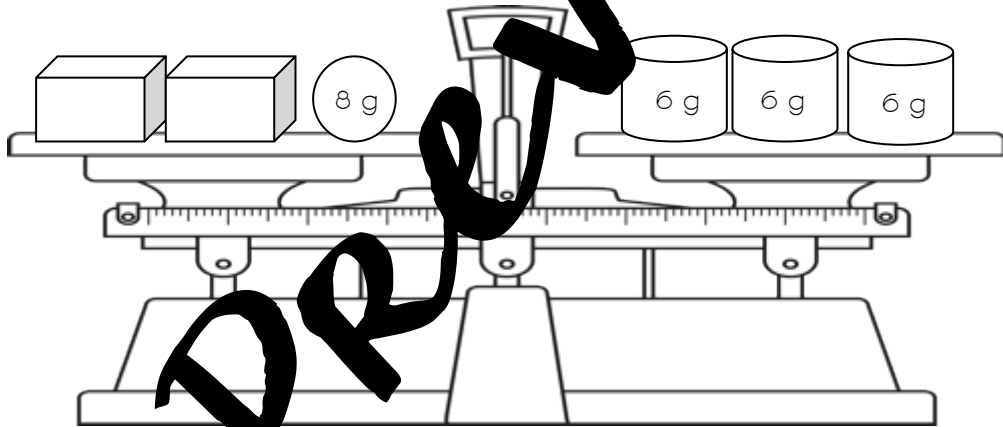
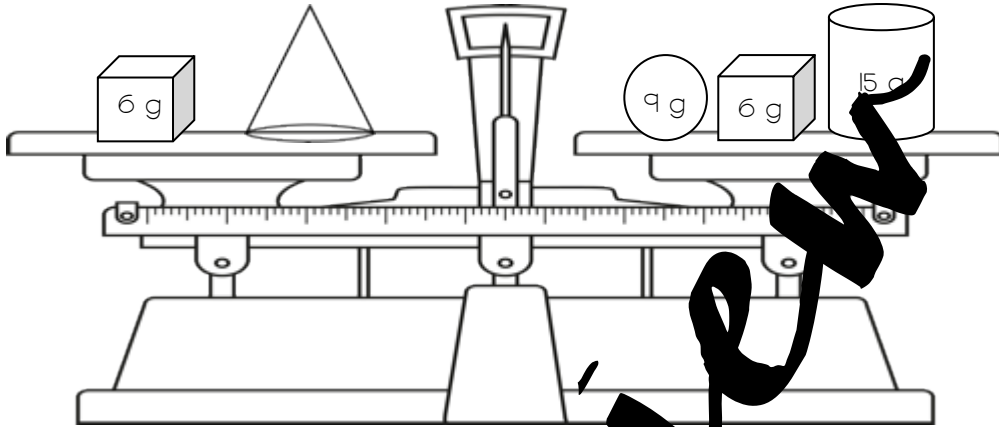


Name _____

Date _____

Balance the Scale part 1

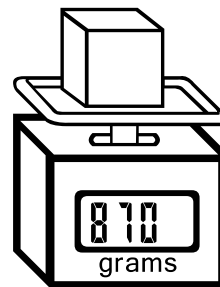
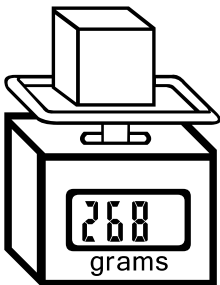
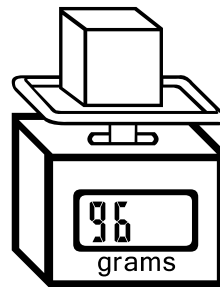
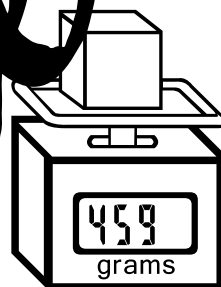
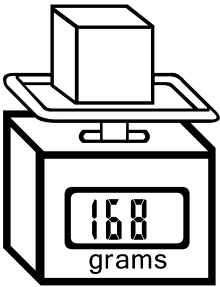
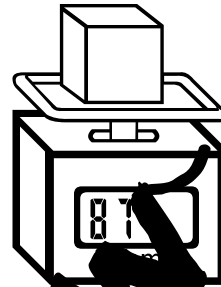
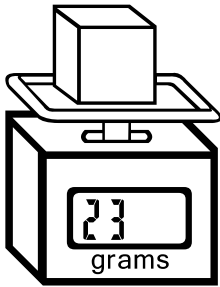
Find the missing mass of each shape.



Name _____

How Many More Grams

How many more grams need to be added to each scale to have one kilogram?



Review

Name _____

Date _____

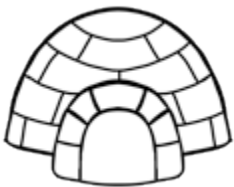
Gram or **Kilogram**

Cut out each image and glue it in the correct box.

Gram

Kilogram


Preview





Name _____


Choose the Best Estimate


Circle the best estimate for the mass of the items below.


| | |
|---|-------|
|  | 40 g |
| | 400 g |
| | 40 kg |

| | |
|--|-------|
|  | 5 kg |
| | 150 g |
| | 15 g |

| | |
|--|-------|
|  | 30 kg |
| | 30 g |
| | 300 g |

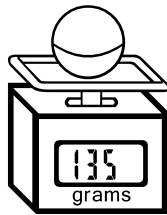
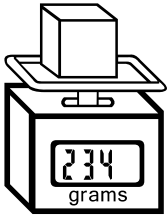
| | |
|---|------|
|  | 50 g |
| | 5 kg |
| | 5 g |

| | |
|---|-------|
|  | 5 g |
| | 10 g |
| | 50 kg |

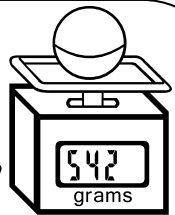
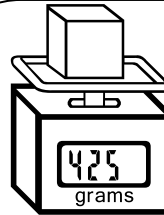
| | |
|--|--------|
|  | 2 kg |
| | 2 g |
| | 200 kg |

Name _____

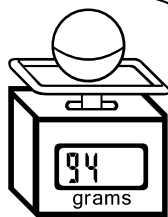
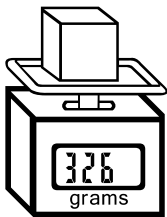
Mass Word Problems



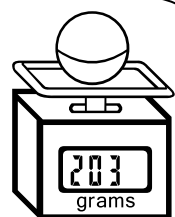
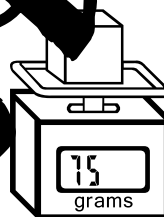
How many more grams is the cube than the sphere?



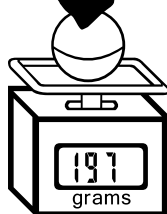
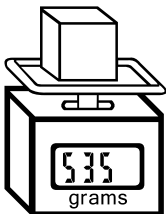
How many grams are there in all?



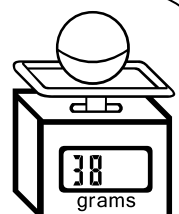
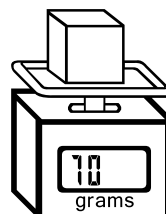
If you combine the cube and sphere, how many more grams are needed to make a kilogram?



What is the difference in mass between the two shapes?



What is the sum of the mass of the two shapes?



If I had three cubes, and one sphere, what would be the total mass of the shapes?

Name _____

Mass Word Problems



Solve each word problem with a number sentence and a picture.

Four friends have a phone. They each have a mass of 200 grams. What is the total mass of the phones?

Pete weighed four potatoes that had a total mass of 800 grams. If each potato had the same mass, how many grams was one potato?

If the mass of a head of broccoli is 156 grams and the mass of a cucumber is 250 grams. How much more mass does a cucumber have than broccoli?

If a radish has a mass of 125 grams, and an orange has a mass of 165 grams, what is the total of the two foods?

Name _____

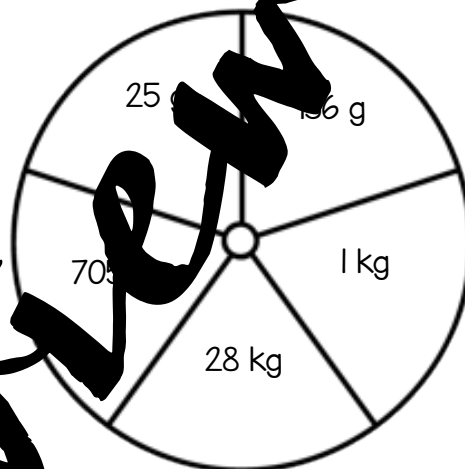
Spin A Word Problem

Write and solve two volume word problems. Use one spinner to determine the setting of your word problem. Use the other spinner to find the total volume to be included in your word problem. The total volume should be the answer to your question.

Setting



Mass



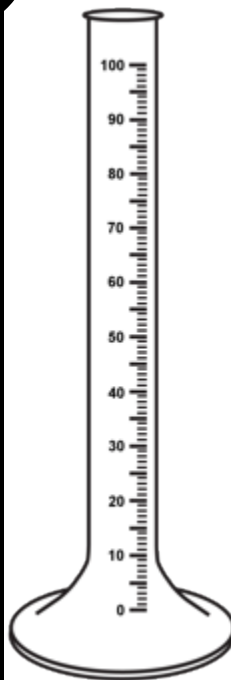
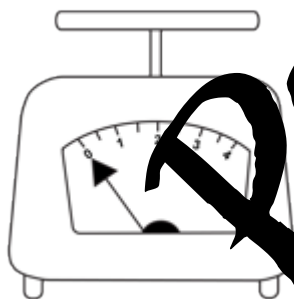
Preview

Name _____

Measurement Tools



Name five things you could measure using the tool shown in the box.



Name _____

Date _____

Mass and Volume Sort

Cut out the boxes below and glue underneath the correct category.

| grams | kilograms | milliliters | liters |
|-------|-----------|-------------|--------|
| | | | |
| | | | |
| | | | |

Preview

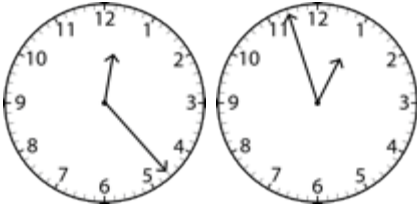
| | | | |
|---------------------------|--------------------------------|------------------------------|---------------------|
| The mass of a leaf | How much a teaspoon will hold | How much a bathtub will hold | The mass of bricks |
| How much a vase will hold | The mass of a card | How much a pool will hold | The mass of a tiger |
| The mass of a child | How much an aquarium will hold | How much a glass will hold | The mass of scarf |

Name _____

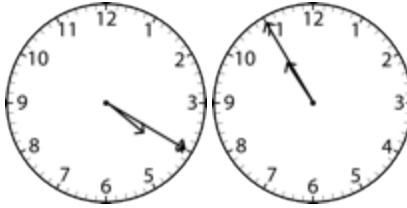
Date _____

MEASUREMENT TEST

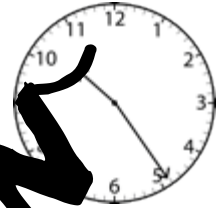
1. What is the elapsed time between the two clocks?



2. What is the elapsed time between the two clocks?



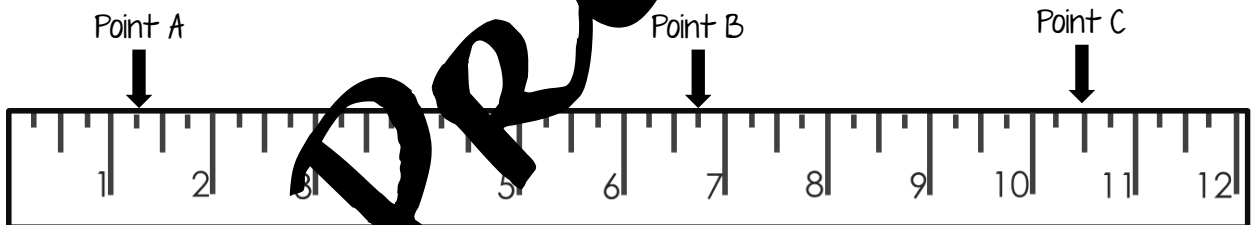
3. What time will it be in one hour and 25 minutes?



4. Zeke started playing basketball at 3:40. He played for 1 hour and 18 minutes. What time did he finish playing basketball?

5. Vivian got home from the birthday party at 6:20. She was at the party for 2 hours and 15 minutes. What time did she arrive at the party?

What is the length of the points on the ruler?



6. Point A _____

7. Point B _____

8. Point C _____

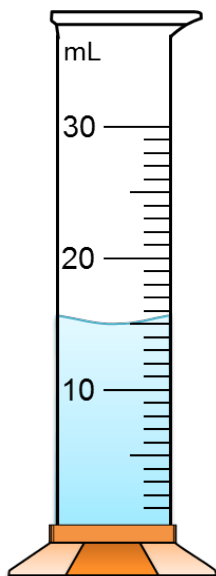
Average Length of Pencils



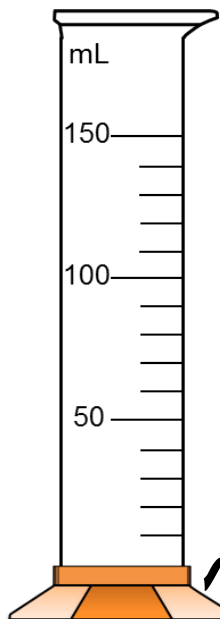
9. How many pencils were $2\frac{1}{2}$ inches long? _____

10. How many more pencils were four inches long than two inches long? _____

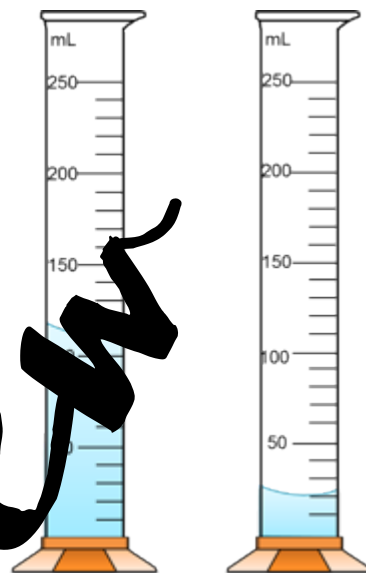
11. Read the beaker.



12. Color in the beaker to show 80 mL



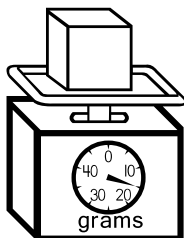
13. How many more mL is in the second beaker than the first beaker?



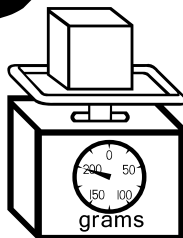
14. Casey had 25 mL of water in one beaker and 128 mL of water in another beaker. What is the difference in volume between the two beakers?

15. Jake has four baseballs that each have a mass of 200 grams. What is the total mass of Jake's four baseballs?

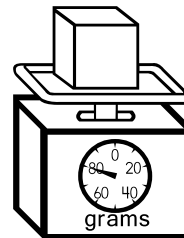
16. What is the mass?



17. What is the mass?



18. What is the mass?



19. Circle the best estimate for the mass of a light bulb.

- 20 kilograms 20 grams
200 kilograms 2,000 grams

20. Circle the best estimate for the volume of a baby food jar.

- 80 mL 8,000 mL
8 L 80 L