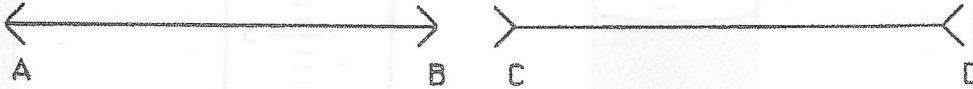


THE SCIENTIFIC METHOD Optical Illusions

Make your guess first and then measure with a metric ruler.

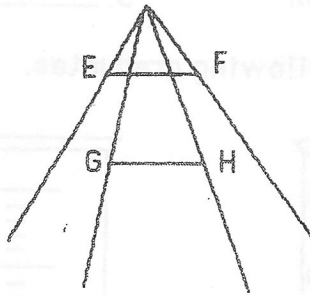
1. Which line is longer AB or CD? _____



What are the actual lengths of the two lines? AB = _____ CD = _____

2. Which line is longer EF or GH? _____

What are the actual measurements? EF = _____ GH = _____

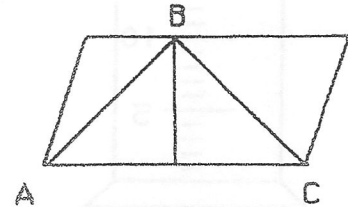


3. Which line appears longest?

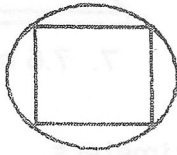
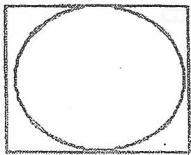
What are the lengths?

AB = _____

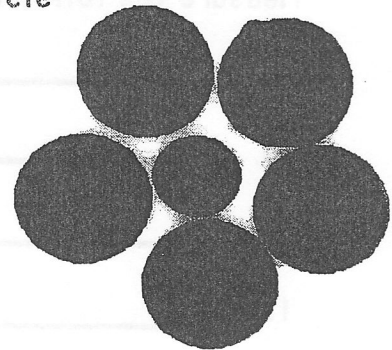
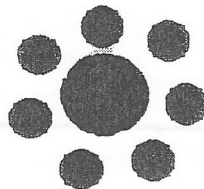
BC = _____



4. Which circle is larger?



5. Which center circle is largest?

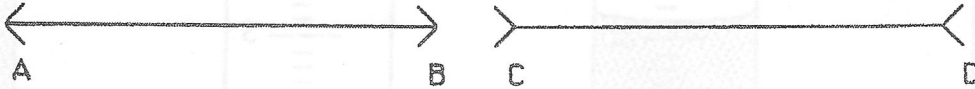


Name: _____ Date: _____ Per: _____

THE SCIENTIFIC METHOD Optical Illusions

Make your guess first and then measure with a metric ruler.

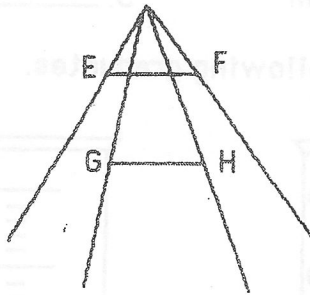
1. Which line is longer AB or CD? _____



What are the actual lengths of the two lines? AB = _____ CD = _____

2. Which line is longer EF or GH? _____

What are the actual measurements? EF = _____ GH = _____

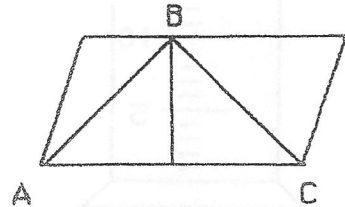


3. Which line appears longest?

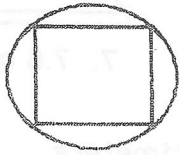
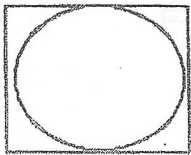
What are the lengths?

AB = _____

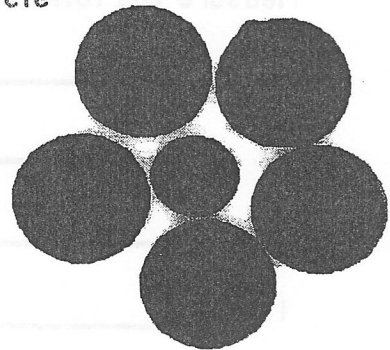
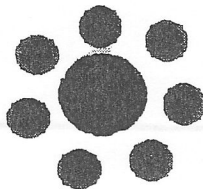
BC = _____



4. Which circle is larger?



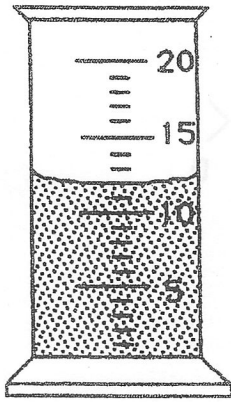
5. Which center circle is largest?



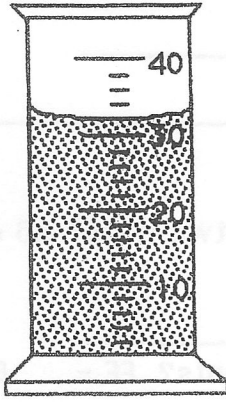
SCIENTIFIC MEASUREMENT

Reading Graduated Cylinders and Measuring Line Segments

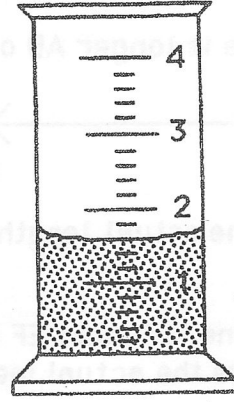
Read the meniscus line on these graduates.



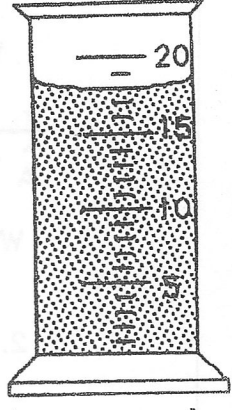
1. _____ ml



2. _____ ml

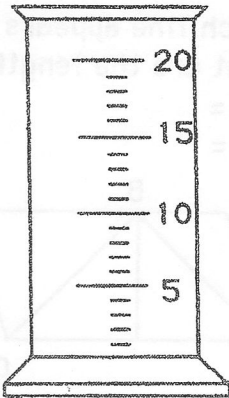


3. _____ ml

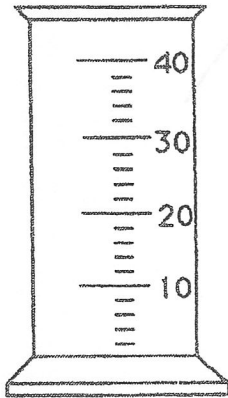


4. _____ ml

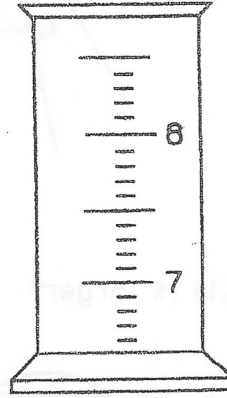
Draw a meniscus for each of the following graduates.



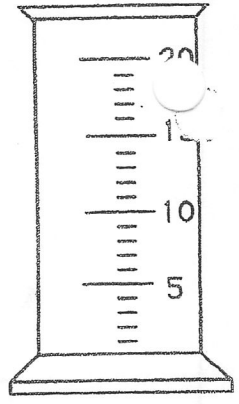
5. 14 ml



6. 22 ml



7. 7.6 ml



8. 12.5 ml

Measure the following line segments in centimeters.

9. _____

10. _____

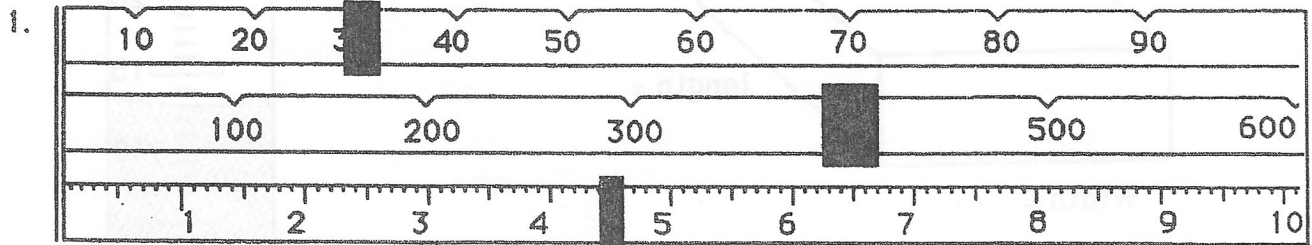
11. _____

12. _____

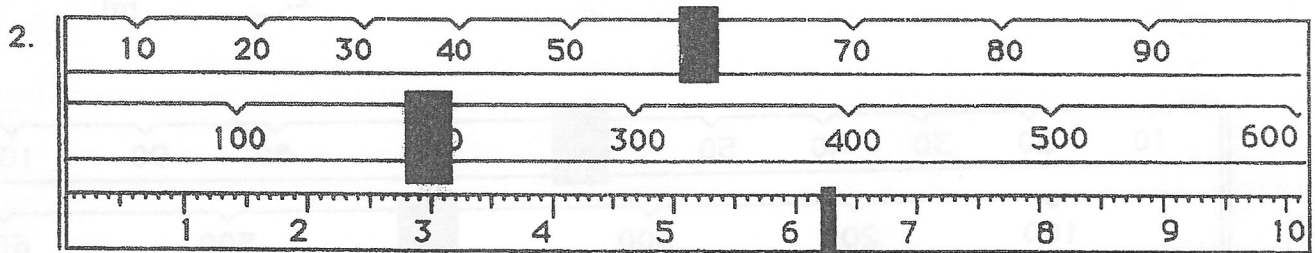
13. _____

SCIENTIFIC MEASUREMENT Using The Triple Beam Balance

Read the triple beam balances and record the mass in grams.

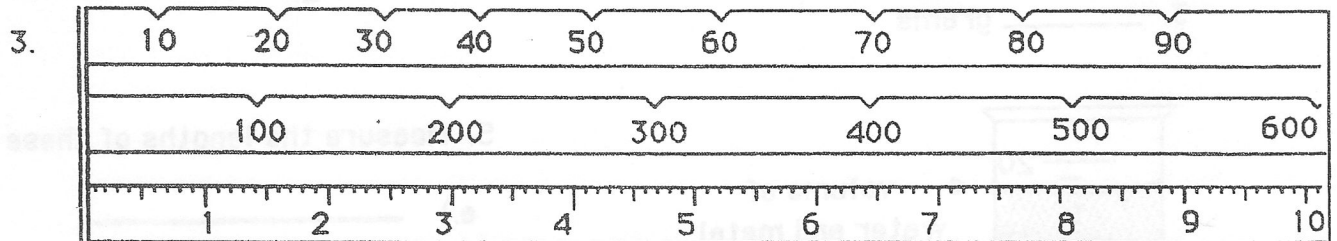


1. _____ grams

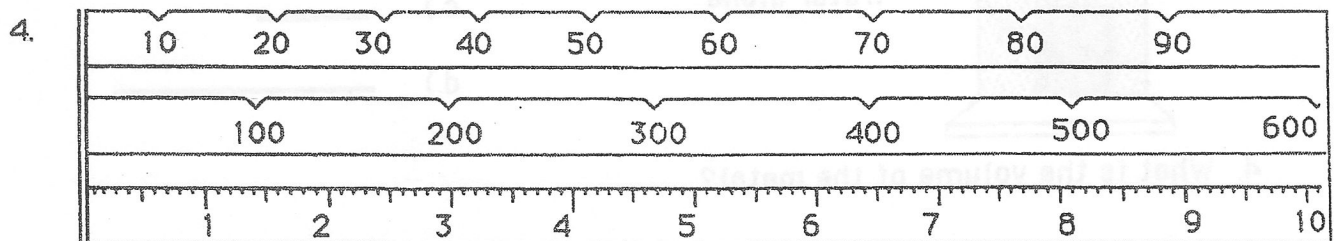


2. _____ grams

Make marks on the following triple beam balances to show the grams indicated.

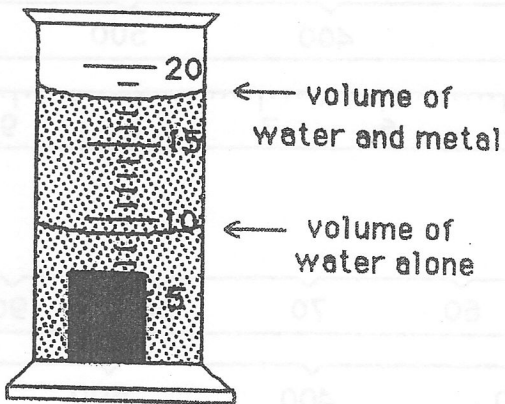
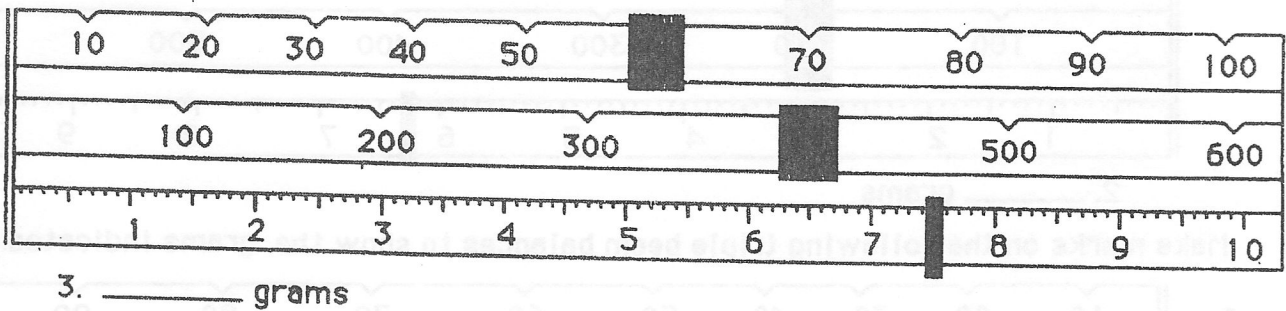
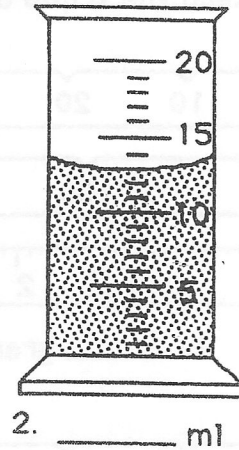
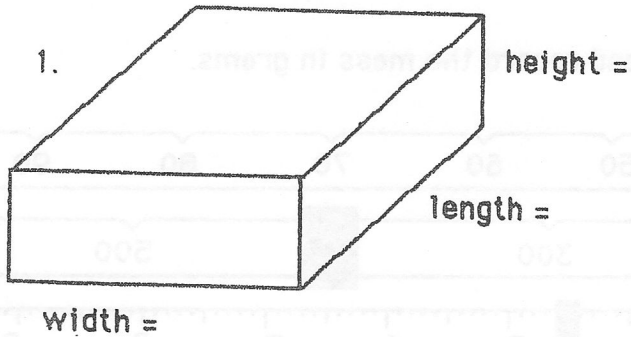


3. 451.7 grams



4. 589.3 grams

SCIENTIFIC MEASUREMENT Measuring In The Metric System



5. Measure the lengths of these lines.

- a.) _____
- b.) _____
- c.) _____
- d.) _____

4. What is the volume of the metal?