NAME _____ DATE _____ CLASS _____

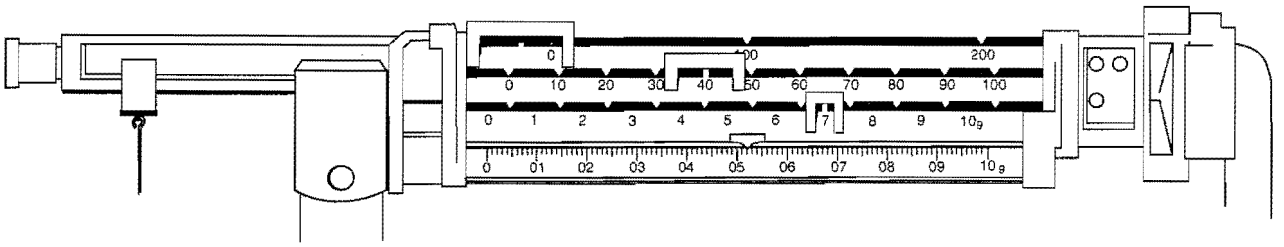
LABORATORY SKILLS ASSESSMENT

Using Laboratory Measuring Devices

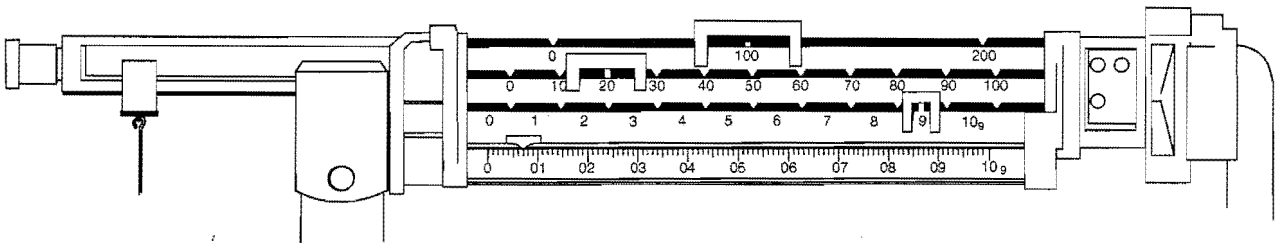
Lab and Safety Skills

Balance: Determining Mass

1. What mass is shown on each of these balances?



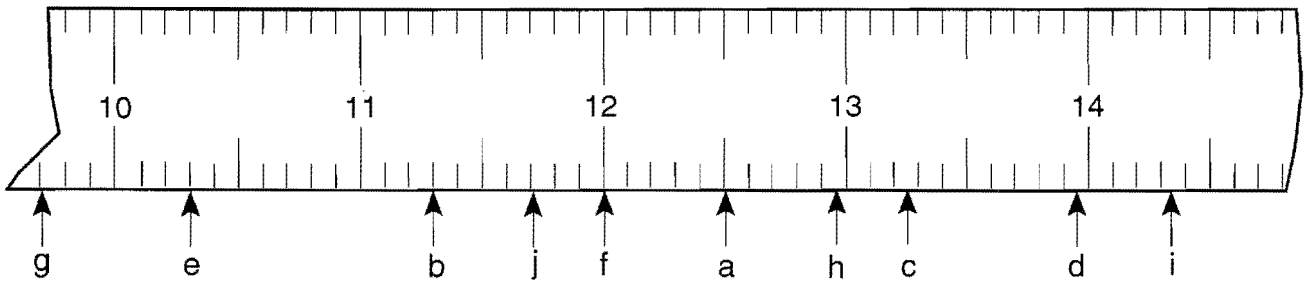
a. The mass of the object would be read as _____ .



b. The mass of the object would be read as _____ .

Metric Ruler: Determining Length

2. What lengths are indicated on this ruler?



a. _____ **f.** _____

b. _____ **g.** _____

c. _____ **h.** _____

d. _____ **i.** _____

e. _____ **j.** _____

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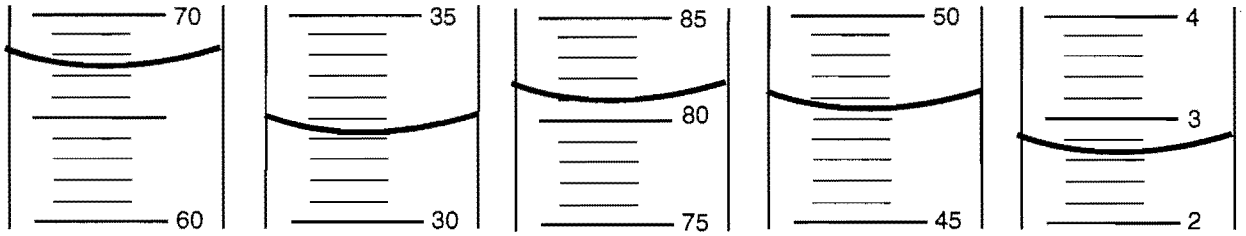
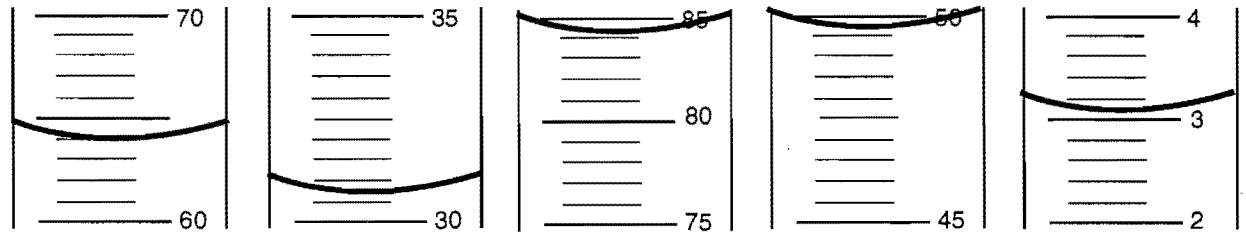
Graduated Cylinder: Measuring Liquid Volume

3. What volume is indicated on each of these graduated cylinders?



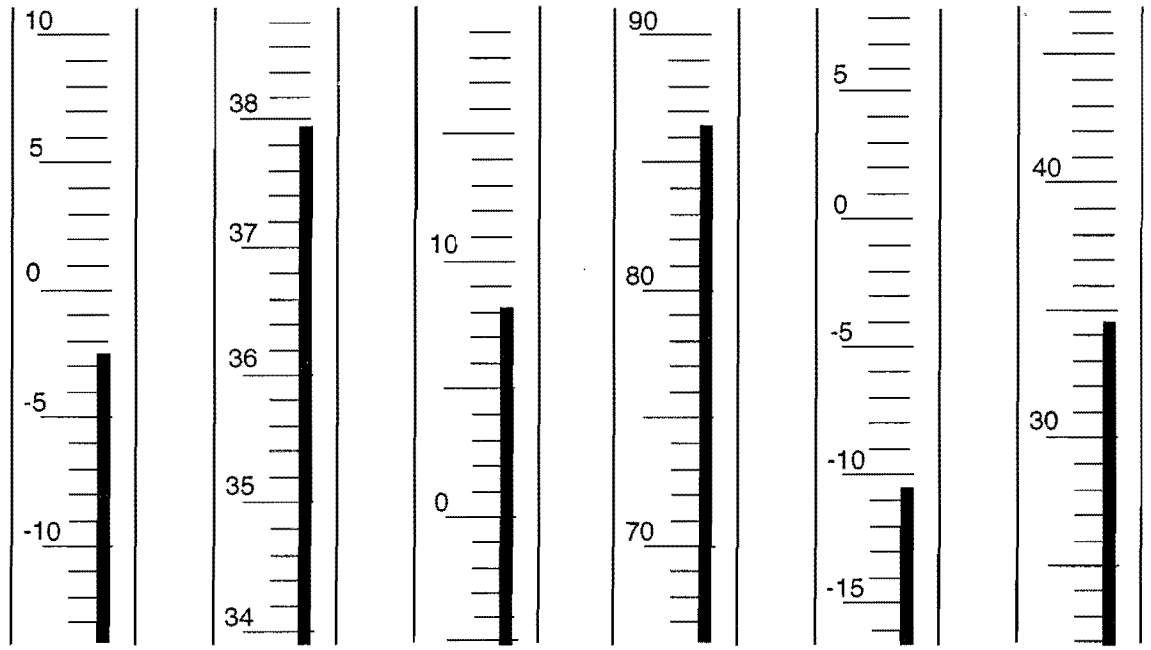
a. _____ **b.** _____ **c.** _____ **d.** _____ **e.** _____



f. _____ **g.** _____ **h.** _____ **i.** _____ **j.** _____

Thermometer: Measuring Temperature

4. What temperature is indicated on each of these thermometers?



a. _____ **b.** _____ **c.** _____ **d.** _____ **e.** _____ **f.** _____

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LABORATORY SKILLS ASSESSMENT

Using a Metric Ruler and Protractor

Lab and Safety Skills

A. Calculating Surface Area and Volume Using Metric Measurements

Your teacher will give you several objects including those items listed in Table 1. Using your metric ruler, make the required measurements and complete the table. Use your data to calculate surface area or volume for each item.

TABLE 1

Object	Length	Width	Height	Surface area/volume
Index card				
Domino piece				
Petri dish				
Glue stick				
Lab Table Top				

B. Metric Scale Conversions

Using your metric ruler and the map on page 35, measure the distances between the points indicated in Table 2. Record your answers in Table 2. Complete the table using the scale 10 cm = 1 km.

TABLE 2

How far is it from the _____ ?	Metric measurement		Actual distance km
	mm	cm	
Softball field to the lake			
Meadow to the picnic area			
Hickory grove to the lake			
Pine forest to the picnic area			
Softball field to the hickory grove			
Softball field to the lake through the meadow			

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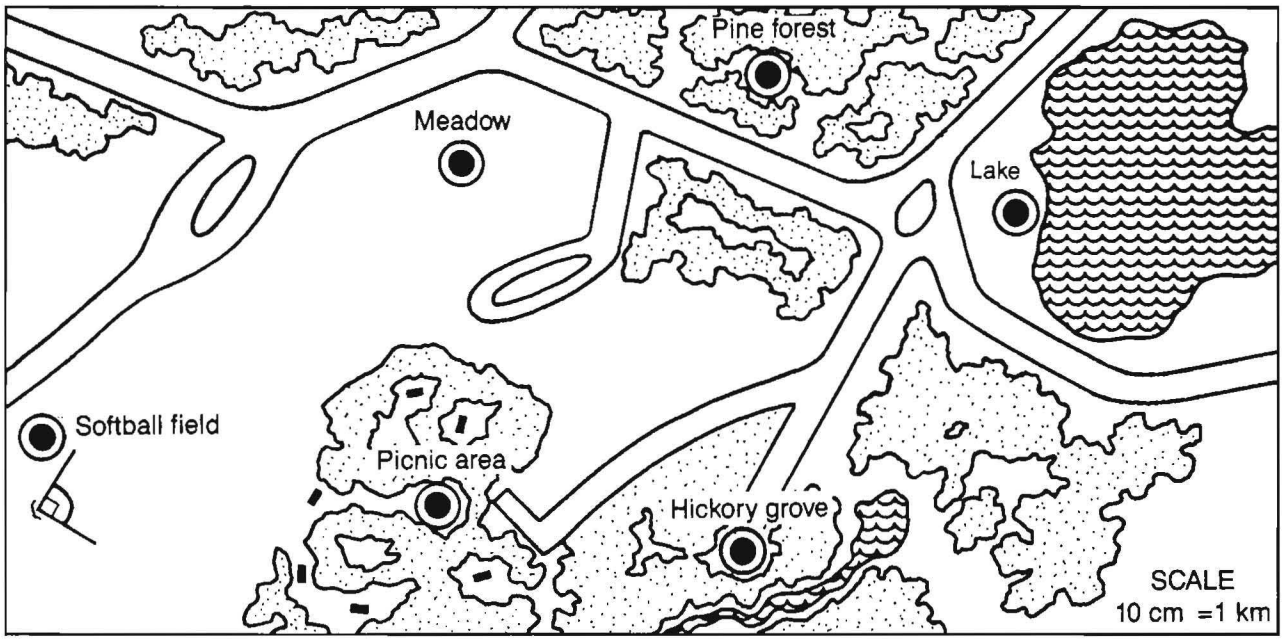
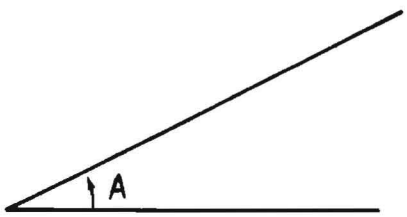
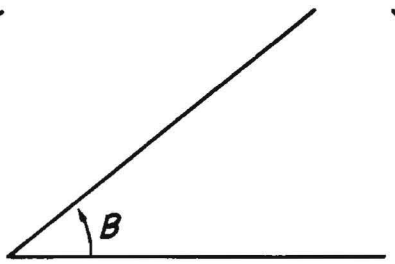


C. Measuring Angles

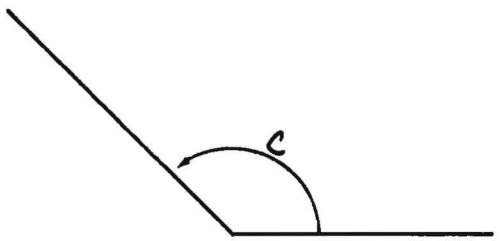
1. Using your protractor, measure the size of the angles below. Record your answers on the lines after the letters.



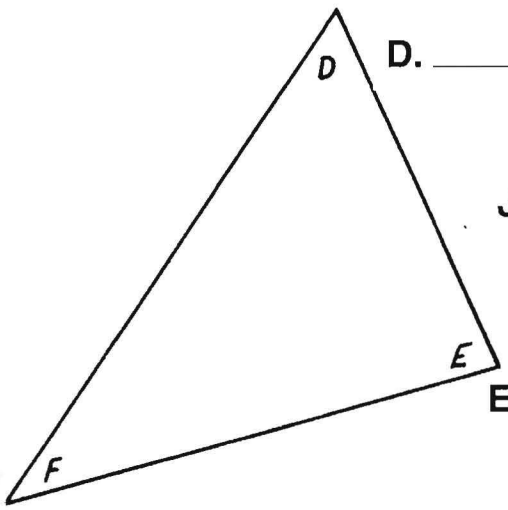
A. _____



B. _____



C. _____

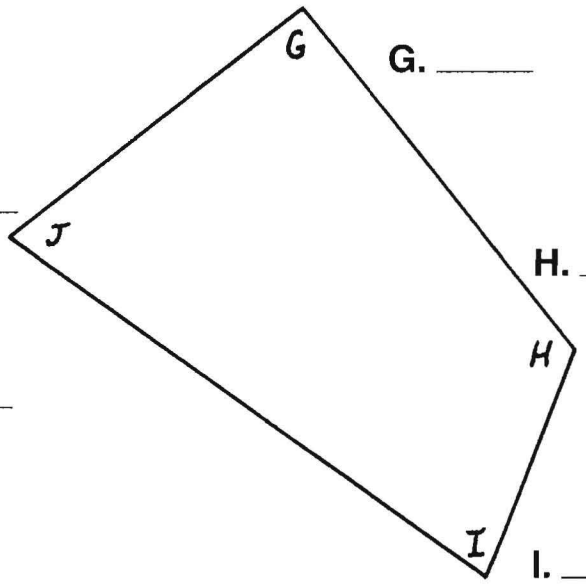


D. _____

E. _____

F. _____

J. _____



G. _____

H. _____

I. _____