

Name \_\_\_\_\_

## PALM LEAVES

Student objective 1: Students will observe the different qualities of palm leaves and classify each leaf as palmate, pinnate, or twice compound.

Student objective 2: Students will quantify and graph the different characteristics of palm leaves.

### Exercise 1

Look at palms near your home or next to the school and put an X in the box under the type of leaf each palm has: pinnate, palmate, or twice compound.

Palm Name or description	pinnate	palmate	twice compound	number of leaflets*
1.				
2.				
3.				
4.				

\*hint – count one side of the leaf and multiply by two

### Exercise 2

Read “How are palm leaves different?”. Pick one of the palm leaves you identified in Exercise 1 to answer the following questions.

5. Did the leaves fall off cleanly? \_\_\_\_\_

6. Do the leaves stay on the trunk of the palm after they are dry? \_\_\_\_\_

7. Were the leaves cut neatly with a saw by gardeners? \_\_\_\_\_ If so, what part of the leaf are the gardeners cutting? \_\_\_\_\_

8. In the packet “How are palm leaves different?” you saw a few examples of how palm leaves can be different from each other. Does your leaf have any characteristics similar to the ones in the packet? Fill in the chart below.

Leaf name: _____	Yes	No
1. Does the sheath wrap around the stem?		
2. Does the sheath look like a web or burlap bag?		
3. Does the sheath have spines?		
4. Did the leaf blade fall off and leave the leaf sheath on the trunk?		

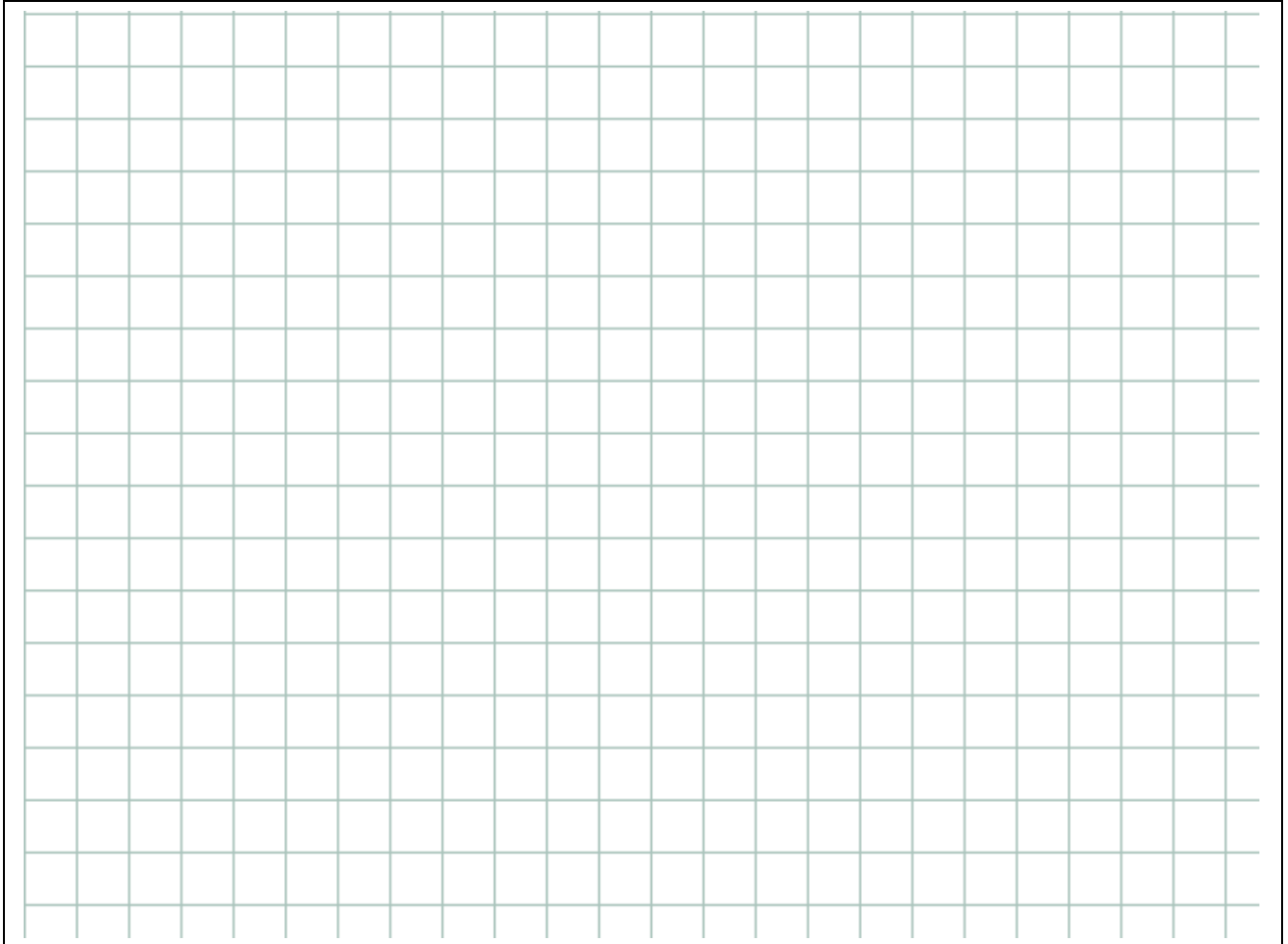
9. Gather Data: Take a survey of the data collected by your class. Tally the number of leaves that have each of the characteristics below.

pinnate	palmate	twice compound	sheath attached to trunk	spines on sheath	sheath looks like a web or burlap sack

10. Graph: choose three of variables above (pinnate leaves, palmate leaves, twice compound, sheath attached, spines on sheath, sheath like web) and make a bar graph.

Graph Title \_\_\_\_\_

Number of leaves



Variable 1 \_\_\_\_\_

Variable 2 \_\_\_\_\_

Variable 3 \_\_\_\_\_