

Bar Graphs Review

Build, read, calculate and question. Show work; include units.

Name: _____ Class: _____ Date: _____

A / BUILD A GRAPH

1. Four paper bridges held these coin counts: flat, **6**; arch, **14**; folded, **22**; tube, **18**. Complete the table. Write the count unit with each value.

Bridge design	Coins held
Flat	
Arch	
Folded	
Tube	

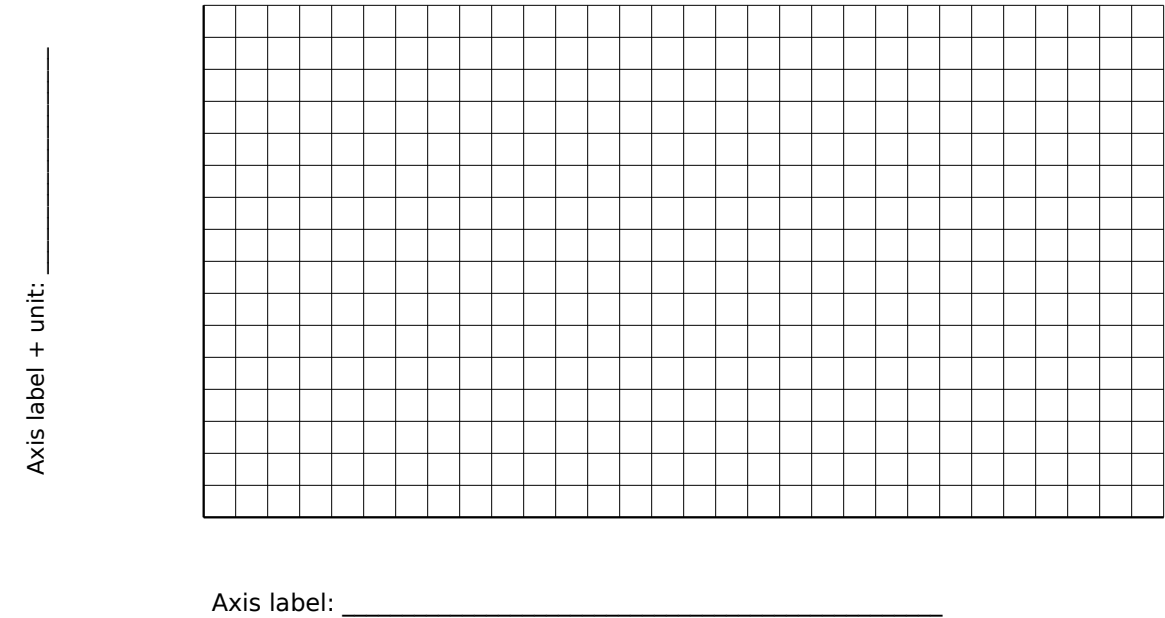
2. The grid has 16 rows. Circle **every** scale that fits the largest count.

1 coin/square 2 coins/square 5 coins/square

3. Explain why counting by 1 coin per square will not fit.

4. Build your graph below. Add a title, category names, both axis labels, units and an even scale. Start at zero. Use equal-width bars and equal gaps.

Title: _____



B / THINK ABOUT YOUR GRAPH

5. How many more coins did the folded bridge hold than the flat bridge? Show your calculation.

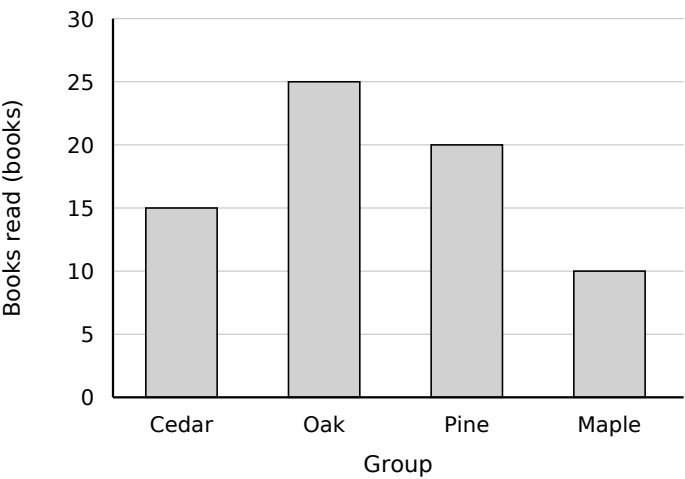
6. A fifth design held zero coins. How would you include that result on your graph?

Bar Graphs Review

Read the scale first. Separate the evidence from the claim.

C / READ AND CALCULATE

Books read by four groups



7. How many books did Oak read? Include the unit.

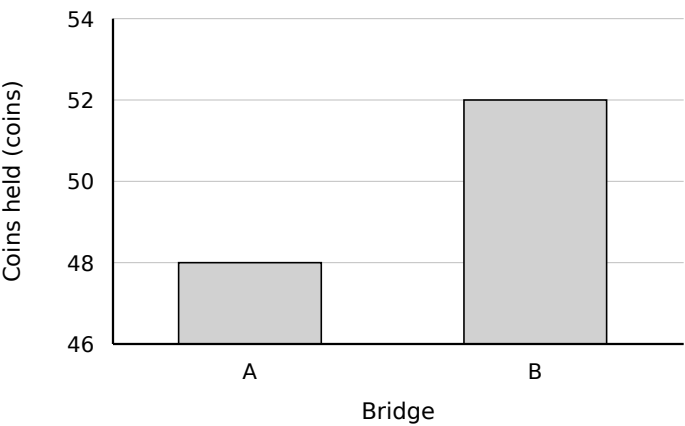
8. Add Cedar and Maple. Which single group read the same total? Show the calculation and name the group.

9. Mystery bars: three categories total **40 items**. A has **12** and B has **9**. What is C? Show your calculation.

D / REPAIR AND REASON

10. These bars show **A = 48 coins** and **B = 52 coins**. Someone says, "B held three times as many coins as A." Use the graph and actual values to evaluate the claim.

A suspicious bar graph



Is the claim correct? What is the actual difference? Explain why the picture can fool a reader.

11. To repair this ordinary bar-length comparison, start the value axis at: _____

12. Using the books graph, someone claims "Oak reads faster than Cedar." Is this supported, contradicted, or impossible to tell from these data? Explain.