

Name: _____

Real World Experience

Engaging Scenario: Grade 2 Math Unit 1: Measurement and Data

You found an injured bird in your backyard. You have been to animal rescue zoos with your family and based on your experience have decided to help this bird. You ask your mom if you can build a birdhouse and care for it in your backyard. Your mother agrees and gives you permission. As a builder you will need to figure out the size of the house that you will need along with the proper materials. As you complete your birdhouse, a local news reporter finds out about your act of kindness and asks you to write a column about your project. You will need to write an expository explanatory paper for the newspaper about the math you used in construction of your bird house.

Task 1: Make a list of materials and tools that you will need to construct your birdhouse.

Task 2: Construct a mini size virtual or paper birdhouse using a cube, rectangular prism, and/or triangular prism shape, etc.

Task 3: Using graph paper, design an outline of a bird house with accurate lines and measurements. You will need to know what proper measuring tool to use. Make sure to label the length of your lines. Label the longest side of the birdhouse. Label the shortest side of the birdhouse.

Task 4: Collect data using a tally sheet about which shapes students used in their birdhouse construction. Using graph paper, transfer data into a line plot graph and a bar graph.

Task 5: Write an explanatory essay about the math you used in planning the construction of your birdhouse. Be sure to include which measuring tool you used and why; explain how you measured the various sides; how you collected and organized the data about everyone's birdhouse; and how you created your line plot and bar graph.

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Teacher NOTES

Suggested pacing:

Work on each task after teaching the appropriate target.

- Task 1 should be completed after Topic 1
- Task 2 should be completed after Topic 2
- Task 3 should be completed after Topic 3
- Task 4 should be completed after Topic 4
- Task 5 can be completed before or after the unit assessment

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Task 5 Scoring Guide

Be sure to explain how you measured the various sides; what tool you used and why; how you collected and organized the data about everyone's birdhouse; and how you created your line plot and bar graph.

MEETING

- ☐ Student listed which measuring tool he/she used.
- ☐ Student explained why he/she chose the measuring tool used.
- ☐ Student explained how he/she measured the sides
- ☐ Student explained how he/she organized the data about everyone's birdhouse
- ☐ Student explained how he/she created a line plot
- ☐ Student explained how he/she created a bar graph

DEVELOPING

Meets 4 out of 6 proficient criteria

BEGINNING

Meets fewer than 4 of the proficient criteria

(Task to be repeated after re-teaching)

Comments:

Name: _____

Task 1: List of materials

Name: _____

Task 2: Modeling Birdhouse

Click on the link

Click Allow

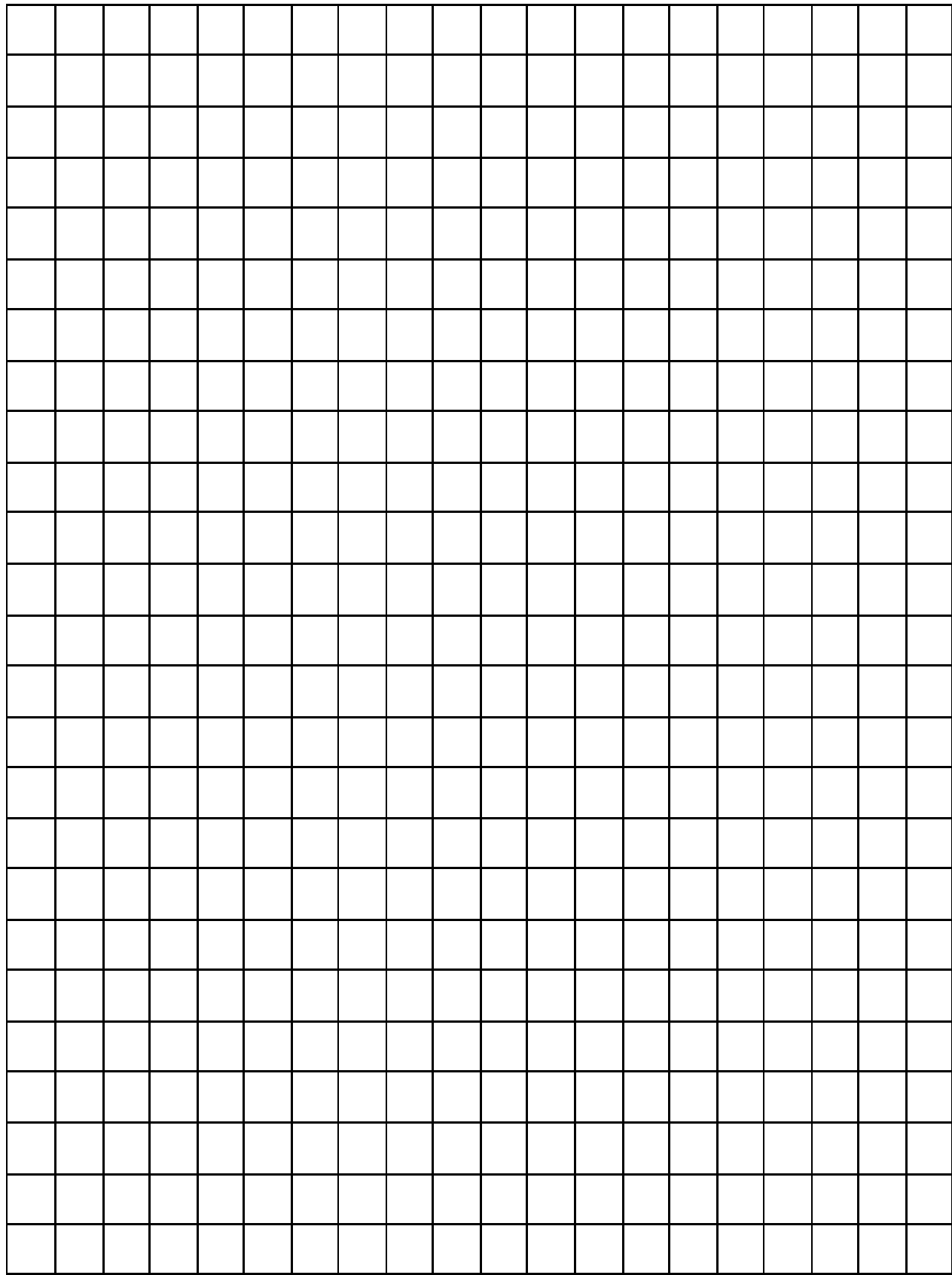
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Print the shapes needed.

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Name: _____

Task 3: Drawing of Birdhouse



Name: _____

Task 4: Tally Sheet

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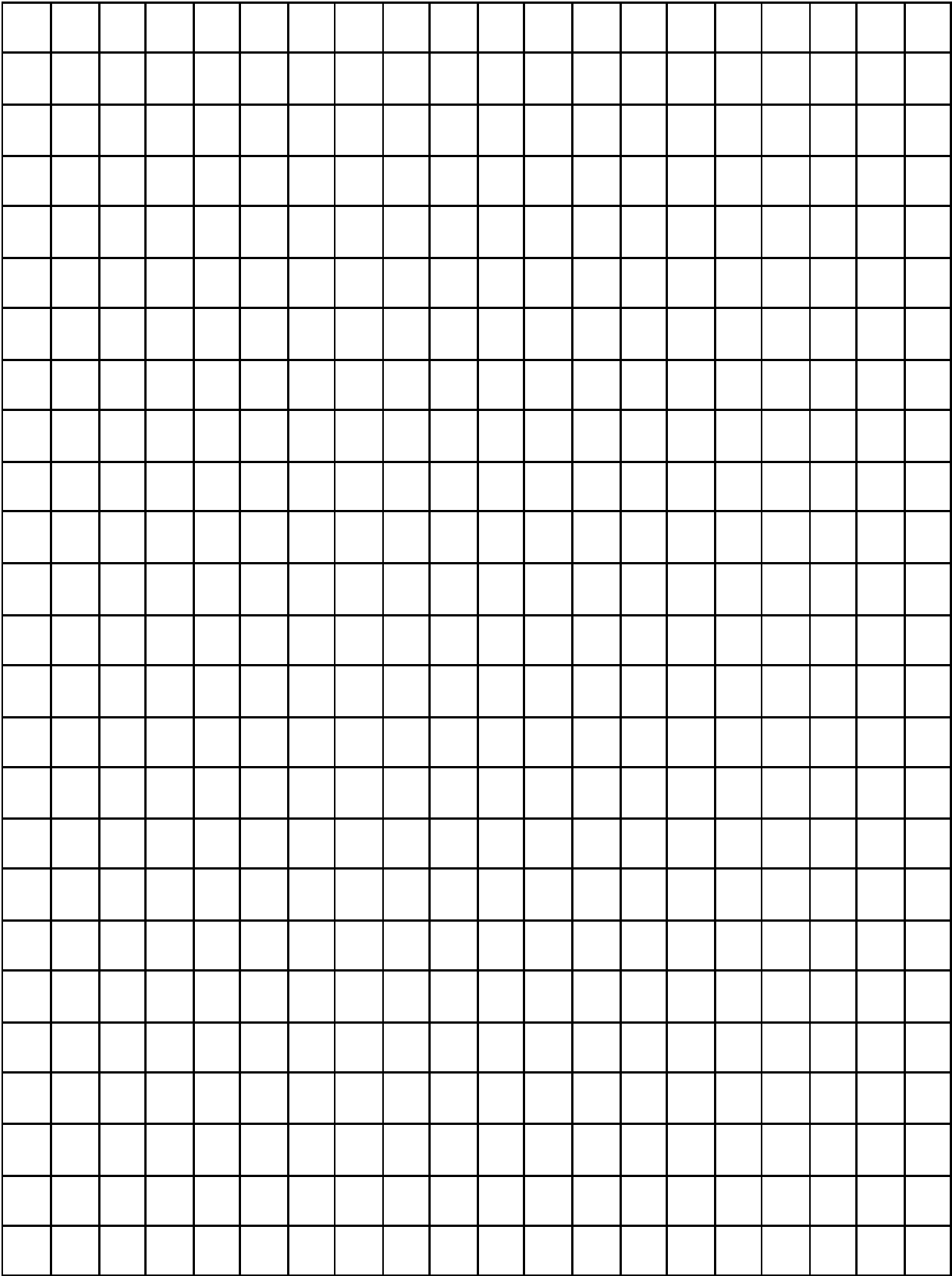
Name: _____

Task 4: Line Plot



Name: _____

Task 4: Bar Graph



Name: _____

Task 5: Teacher uses preferred writing paper or graphic organizer for his or her class.