

Professor Peabody's Quarters



Homework

The students are thinking about how well they use data tables and graphs to solve problems. They will use the tool they need more practice with when solving their homework problems.



I could use a little more practice with graphs. I will use my graph to answer the questions.



I could use more practice using data tables. I will use my data table to answer the questions.



I need more practice with both tools! I will use my graph to answer two of the questions and my data table to answer two others.



I feel good about using a graph and a data table and could use a challenge. I will focus on choosing the best tool and most efficient method to answer each question.





Self-Check

Use the menu to help you focus your practice. Place one "X" in each row.

Practice Menu		
Can I Do This?	▲ Working On It!	■ Got It!
Use a data table to solve problems.		
Use a graph to solve problems.		

- Professor Peabody did an investigation like *Mass vs. Number* using quarters, but he spilled some paint on his data table! Can you estimate what the missing numbers were? Make your best estimate for the blanks.

Mass of Quarters

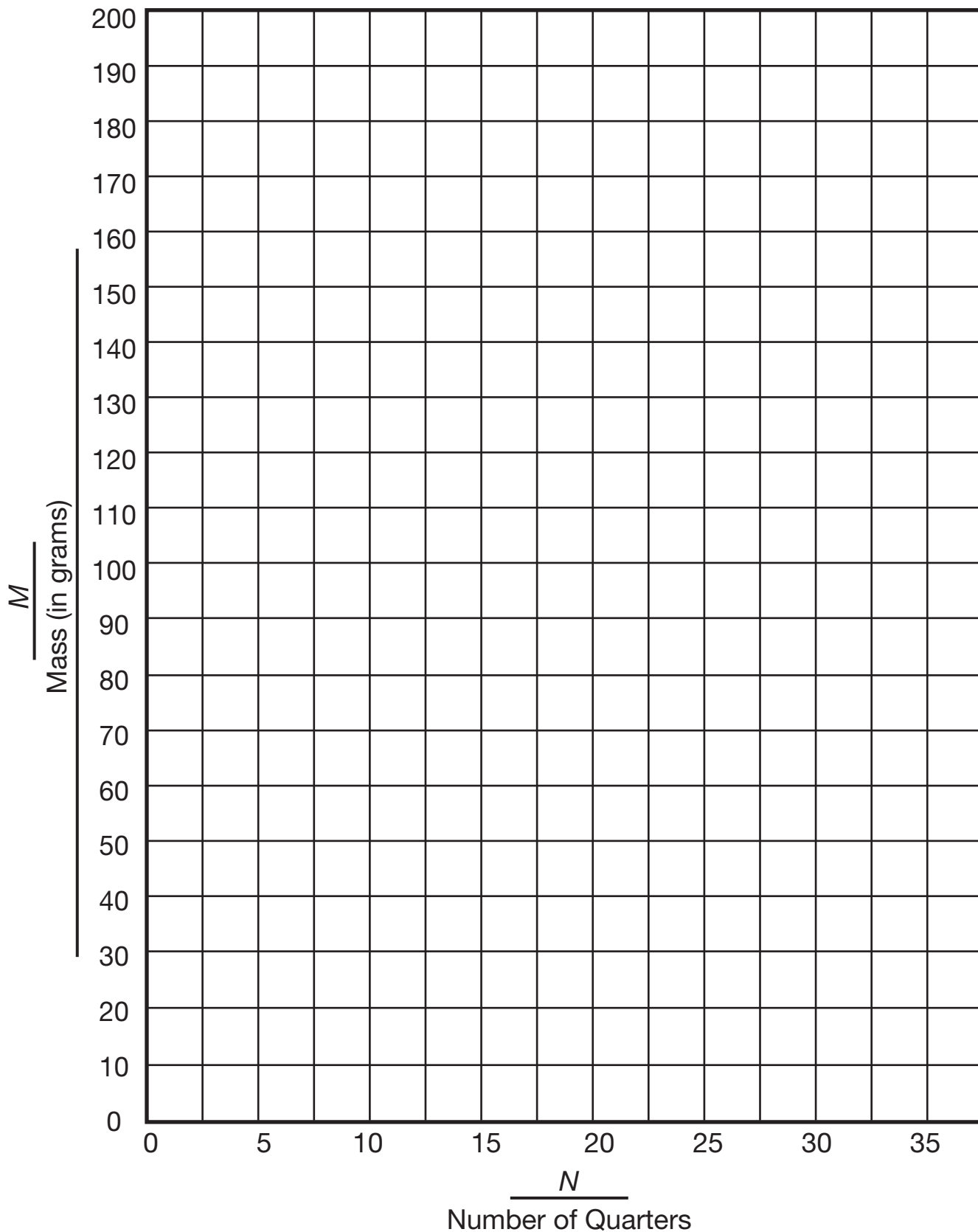
<i>N</i> Number of Quarters	<i>M</i> Mass (in g)
5	30
10	60
15	
	119

- Describe any patterns you see looking down the columns.

B. Describe any patterns you see looking across the rows.

- Complete the Mass of Quarters graph on the next page using the data from the table in Question 1. Use a ruler to draw a best-fit line.

Mass of Quarters



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Name _____ Date _____

Use a data table or a graph to solve the problems depending on where you need the most practice.

4. Did the mass double when Professor Peabody doubled the number of quarters? Show or tell how you know.

5. Predict the mass of 25 quarters. Show or tell how you solved the problem.

6. What is the mass of 12 quarters? Show or tell how you know.

7. How many quarters are needed for a mass of about 100 grams?