5. Choose the graph where the line best fits the data points given.



- **a. •** Graph 1 (go to # 2)
- **b.** Graph 4 (go to #9)
- **c.** Graph 2 (go to #6)
- **d. •** Graph 3 (go to #10)

2. Ben measured the height of a particular plant at two-week intervals in different situations. The table shows the data. Make a scatter plot for the data.

Time (in weeks)	Height (cm)
2	7
4	8
6	13
8	19
10	20
12	24
14	32
16	37
18	38
20	41





- **a.** Graph 2 (go to #9)
- **b.** Graph 4 (go to # 1)
- **c.** Graph 3 (go to #8)
- **d. •** Graph 1 (go to #5)

8. The scatter plot shows the relationship between the fat (grams) and the total calories in different types of fast food items. Predict the total number of calories in a food item containing 15 grams of fat.



- **a.** about 200 (go to #3)
- **b.** about 580 (go to #5)
- **c.** about 350 (go to #10)
- **d.** about 300 (go to #6)

10. The graph depicts the relation between the price and the supply of an item. What model does the graph follow?



- **a.** Positive Quadratic Model (go to #5)
- **b.** Negative Quadratic Model (go to #6)
- **c.** Positive Linear Model (go to #4)
- **d.** Negative Linear Model (go to #3)

3. The scatter plot represents the requirement of Vitamin D by a person at various stages in his or her life. What model does the graph seem to follow?



- **a.** Cubic (go to #7)
- **b.** Quadratic (go to #8)
- **c.** Linear (go to #2)
- **d.** Constant (go to #5)

7. The scatter plot represents the distance traveled by Andrew at different speeds in a given time. Which of the tables represents the values plotted in the scatter plot?



- **a.** Figure 1 (go to #1)
- **b.** Figure 2 (go to #10)
- **c.** Figure 3 (go to #8)
- **d.** None of the above (go to #3)

1. The scatter plot displays the weight of Josh as he grew old. What model does this graph seem to follow?



- **a.** Quadratic (go to #5)
- **b.** C Linear (go to #3)
- **c.** Square root (go to #4)
- **d.** Constant (go to #2)

4. Use the scatter plot and the trend line to find the approximate value of the altitude that corresponds to the gravity of 9.25 m/s^2 .



Gravity changes with altitude

- **a.** 250 km (go to #10)
- **b.** 240 km (go to #5)
- **c. O** 130 km (go to #3)
- **d. O** 186 km (go to #6)

6. Identify the graph that could be modeled with a linear model.



- **a.** O Both Graph 1 and Graph 2 (go to #9)
- **c.** Graph 4 (go to #3)
- **d.** All (go to #1)

9. The cost of entry to an amusement park during 5 years is given in the table below. Pick an appropriate scatter plot that shows the exact trend followed in the table.

Year	Entry fare (\$)
1983	25
1985	30
1987	40
1989	45
1991	50



- **a.** Plot 1 (go to #6)
- **b.** Plot 2 (go to #5)
- **c.** Plot 3 (go to #4)
- **d.** Plot 4 (go to #8)

Trail – 1.1 Modeling Functions		Trail – 1.1 Mode	Trail – 1.1 Modeling Functions		
Problem #:	Answer:	Problem #:	Answer:		

Trail – 1.1 Modeling Functions

ORDER OF ANSWERS:

Note to Teacher: Post problems around the room in numerical order. Students solve the problem and go to the # matching their answer.