Name _____ Period ____ Date ____

Functions: Modeling B

Graph 100 The school is 100 meters from Distance from Jason's House (in meters) Jason's house. The following describes his most recent trip: 90 80 He walked 50 meters toward school in 2 minutes. He 70 realized that he left a book at 60 home. 50 · He turned around and walked home at the same speed.

He spent 1 minute looking 40 for his book. 30 He walked all the way to school at twice his original 20 speed. 10 Use the Line tool to finish a graph that accurately represents Jason's trip. 0 3 Time (min) Graph 2 766 **Coffee Cost** Coffee costs \$2.00 per pound at a coffee shop. 6 Use the Add Arrow tool to draw a line that shows the 5 proportional relationship between the number of pounds of coffee purchased and the 4 total cost. 3 2 1 0 2 3 5 **Pounds of Coffee**

SBAC Math 8 ANSWERS Practice B

Name _____ Date ____

3

1847



D

The table shows the relationship between the average number of hours students study for a mathematics test and their average grade.

Hours Studying	Average Grade	
0	62	
1	78	
2	85	
5	74	

Which type of function is most likely to model these data?

- A linear function with positive slope
- B linear function with negative slope
- © non-linear function that decreases then increases
- non-linear function that increases then decreases

SBAC Math 8 ANSWERS Practice B

Name _____ Period ____ Date ____

2075		Pu	Step 3
Kyle was given the follow	ing problem to solve.		
A company sells be	aseball gloves and bats.	The gloves regularly	
***************************************	ats regularly cost \$90. T		
	bats are on sale for 10%		
***************************************	s and gloves each week.	Last week, the store	
sold 14 gloves and 9	9 bats.		
Did the store meet	its goal?		
The steps Kyle used to s	olve the problem are sho	wn. Select the first	
step that shows an error			
☐ Step 1:	☐ Step 2:	☐ Step 3:	
\$30	\$26	\$90	
- \$4	× 14	÷ 0.9	
\$26	\$364	\$100	
420	\$30 -1	\$100	
☐ Step 4:		ne store met its goal.	
-		J	
\$100	\$900		

+ \$364

\$900