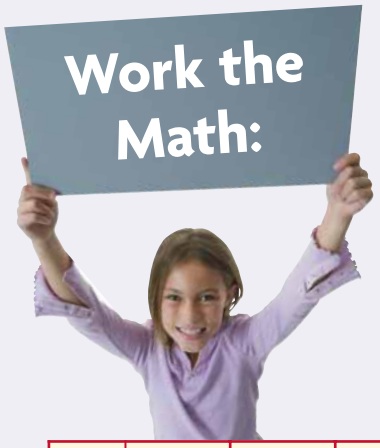
Is That Trash You're Wearing?

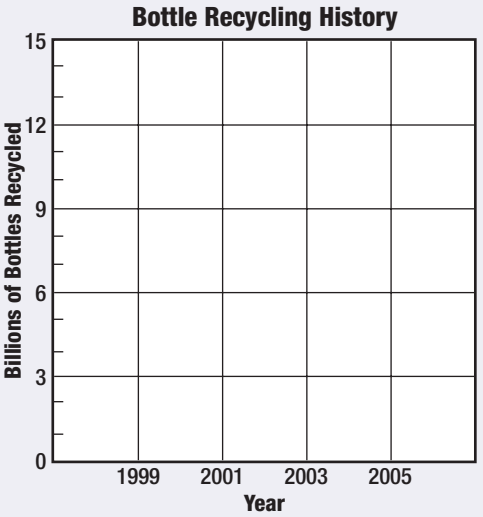
Name: _____ **Date:** _____

Plastic bottles are made from a recyclable plastic called PET. PET is a versatile material used in everything from soda bottles to sails. Best of all, it is easy to recycle. PET bottles can be recycled and even made into clothing! Study the facts in the table at left below and then answer the questions below.



1 **Line It Up** In the table below on the left, calculate the *number* of bottles recycled between 1999 and 2005. (*Round your answers to the nearest whole number.*) Write your answers in the last column of the table. Then use these numbers to create a line graph in the blank graph on the right below.

Year	Billions of Bottles Sold	% of Bottles Recycled	Billions of Bottles Recycled
1999	29	24%	
2001	38	24%	
2003	49	20%	
2005	55	22%	



Draw the Line!

What you need to know about line graphs:

- Line graphs are used to show how data changes over a period of time.
- Like bar graphs, line graphs have an X-axis and a Y-axis. The X-axis usually represents time. The Y-axis represents quantity.
- Line graphs are made up of points on the graph that are connected by a single line.

2 In 2006, 13 billion of these containers were recycled but 47 billion were not. What percentage was recycled in 2006? (*Round your answer to a whole percentage.*) _____

3 Many companies are now recycling PET. One company makes many items from recycled PET, including fleece jackets! It takes 5 two-liter PET bottles to create the fill for a man's ski jacket and 36 bottles for a sleeping bag.

a. How many bottles would be needed to make:
25,000 jackets? _____
25,000 sleeping bags? _____

b. If the company saves $4 per jacket and $12 per sleeping bag by using recycled bottles, how much money would they save if they made: 25,000 jackets? _____
25,000 sleeping bags? _____