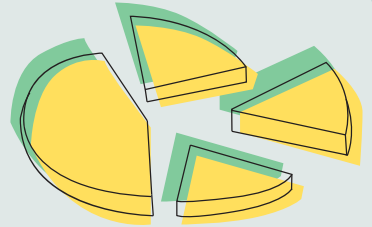


# Recycling by the Numbers: It's as Easy as Pie



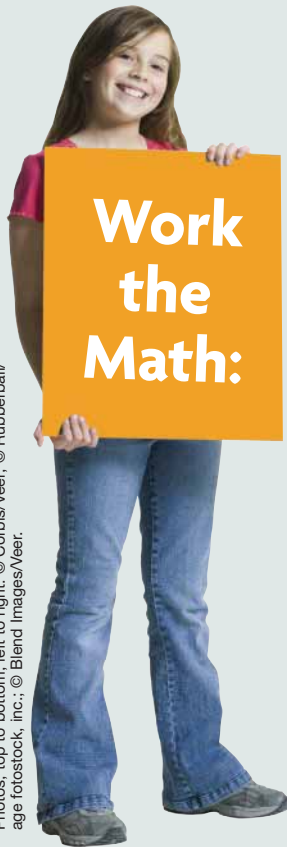
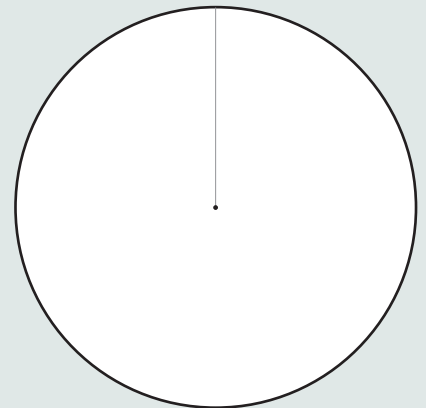
Name: \_\_\_\_\_ Date: \_\_\_\_\_

Each and every day, schools use lots and lots of paper. Once tossed, some is recycled and some is taken to a landfill. Read on to learn how the amount of paper being tossed compares with other landfill materials. Then draw a pie chart to review the information, make comparisons, and calculate how many trees can be saved through paper recycling.

**1 Make a Pie** The table below shows typical school waste produced each year. Use this data to create a pie chart that shows the percentage of different waste materials in schools. Use the table to record the degree to represent in each slice of the pie. (*Hint: Use this formula to convert a percentage into a degree:  $3.6^\circ \times X\% = Y^\circ$ .*) When done, use the blank chart on the right to create a pie chart, and then answer the questions below.

**Type of School Waste**

Type of Waste	% of Total School Waste	Degree Amount in Pie Chart
Paper	47%	
Food	32%	
Plastic	12%	
Metal	4%	
Glass	2%	
Miscellaneous	3%	



Photos, top to bottom, left to right: © Corbis/Veer, © Rubberball/age fotostock, inc., © Blend Images/Veer.

**2** What two types of waste make up nearly  $\frac{4}{5}$  of school waste? \_\_\_\_\_

**3 a.** If a school uses 600 cases of paper, how many tons does this represent? (*Hint: 40 cases = one ton*) \_\_\_\_\_

**b.** If  $\frac{1}{3}$  of this paper is recycled, how many tons would be saved from the landfill? \_\_\_\_\_

**4** If a school produced 350 total tons of waste in a single month, how many tons would be food? \_\_\_\_\_  
How many would be metal? \_\_\_\_\_

**5** Your school decides to use 100% recycled paper. It buys 3,500 cases of recycled paper each month. How many trees would the school save in a school year? (*Hints: 40 cases = one ton; one ton of recycled paper saves 17 trees; one school year is nine months.*) \_\_\_\_\_

