



# Recycling Ratios

6.RP.A.3; 6.EE.C

Phoenix High School conducted a clean-up of recyclable items that students were throwing in the trash cans. Below is the chart of the items they were able to recycle:

<u>Items</u>	<u>Weight</u>
Aluminum Cans	150 pounds
Water bottles	20 pounds
Flyers, stickers, juice boxes, magazines	300 pounds
School papers and notebooks	400 pounds
Apple cores, banana peels, bread crusts	200 pounds
Lunch bags	30 pounds
Lost clothes and hats	150 pounds

1. Create a bar graph comparing the weights of the recyclable items. Make sure to title your graph and label the axes. Label the dependent and independent variables.



2. Using the chart, fill in the blanks for the school announcement below. You should show your work below the announcement. Note: 1 pound=.45 kg

Congratulations all Phoenix High School students! Our school wide clean-up produced 1,250 pounds (that's \_\_\_\_\_ kg for all you metric buffs) of trash. Almost all of the items were recyclable. Of the 1,250 pounds, \_\_\_\_\_% went into our mixed paper bin, \_\_\_\_\_% went into aluminum recycling, \_\_\_\_\_% went into the plastic recycling bin, \_\_\_\_\_% was donated to charity, and \_\_\_\_\_% went into our garden's compost pile. Thank you for all your help. Let's keep our campus clean.





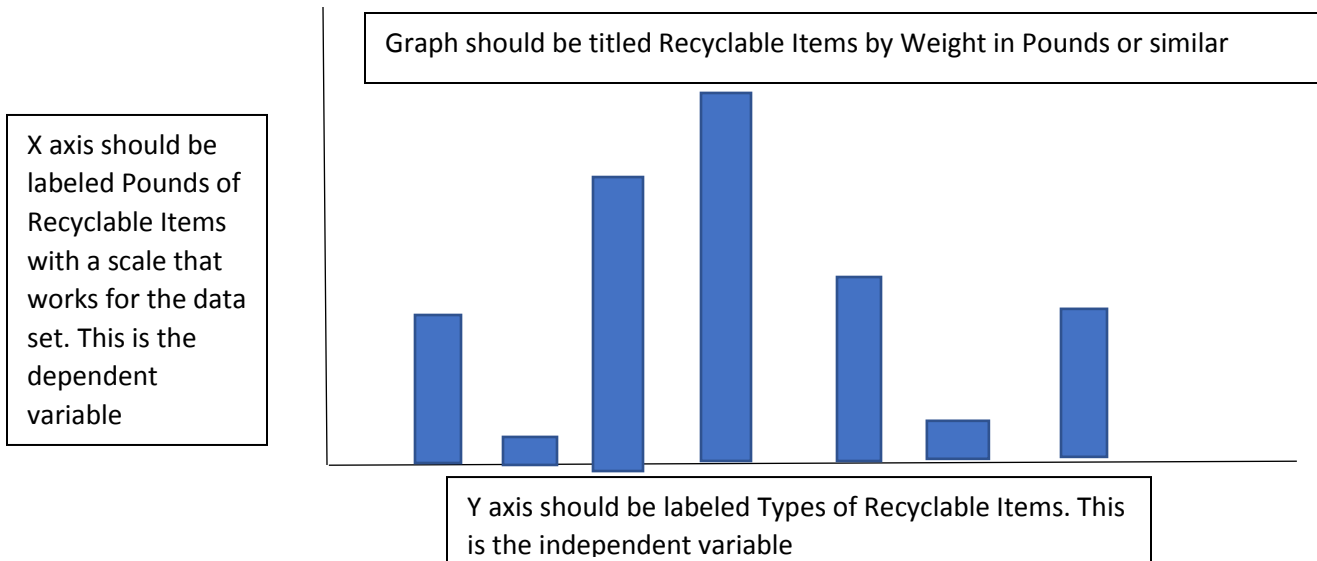
# Recycling Ratios Answer Key

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2. Using the chart, fill in the blanks for the school announcement below. You should show your work below the announcement. Note: 1 pound=.45 kg

Congratulations all Phoenix High School students! Our school wide clean-up produced 1,250 pounds (that's 562.5 kg for all you metric buffs) of trash. Almost all of the items were recyclable. Of the 1,250 pounds,  $730/1250 = 58.4\%$  went into our mixed paper bin,  $150/1250 = 12\%$  went into aluminum recycling  $20/1250 = 1.6\%$  went into the plastic recycling bin,  $150/1250 = 12\%$  was donated to charity, and  $200/1250 = 16\%$  went into our garden's compost pile. Thank you for all your help. Let's keep our campus clean.

