

# The Sunday Classifieds

## FAMILY INVOLVEMENT ACTIVITY

*Use the Sunday classifieds to determine how many jobs in your local area are related to science, math and technology.*

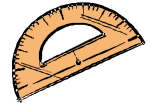
### Introduction

The United States lags behind other countries in the number of scientists, mathematicians, engineers, and technologists who graduate from college. It is interesting to note how many careers involve knowledge of science, math, or technology.

In this activity you and your child explore science-, math-, and technology-related job opportunities in the real world. With your help your child will estimate and calculate some percentages based on jobs that appear in the classifieds section of the Sunday newspaper

### Materials

- Sunday job classifieds section
- Colored pencils
- Protractor



### Activity

1. You will explore how many jobs in the paper require knowledge of science, math, or technology.

Take a guess! The percentage of science-/math-/technology-related jobs listed in the newspaper:  
\_\_\_\_\_%

2. Because the Sunday job classifieds section may be large, family members may want to work individually at first. Each person will be given one sheet from the help wanted section to review all the jobs listed and categorize each as:
  - Science/Math/Technology needed.
  - Science/Math/Technology may be needed.
  - Science/Math/Technology not needed.

### Record the Job Listings Here

Science/Math/Technology Needed	Science/Math/Technology May Be Needed	Science/Math/Technology Not Needed

Science/Math/Technology Needed	Science/Math/Technology May Be Needed	Science/Math/Technology Not Needed

**Discuss**

Discuss the jobs listed under Science/Math/Technology May Be Needed by each family member as a group and decide to categorize them as needed or not needed.

**Calculate**

- Count the number of science-/math-/technology-related jobs, count the number of non-science-/math-/technology-related jobs, and then add to get a total number of jobs. Record these numbers in the table below.

Science-/Math-/Technology-Related Jobs	Non-Science-/Math-/Technology-Related Jobs	Total Number of Jobs Counted

- Convert these numbers to percentages by dividing the number of each type of job by the total number of jobs counted and multiplying by 100:

$$\frac{\text{Science-/Math-/Technology-Related Jobs}}{\text{Total Number of Jobs Counted}} \times 100 = \underline{\hspace{2cm}} \% \text{ are Science-/Math-/Technology-Related Jobs}$$

$$\frac{\text{Non-Science-/Math-/Technology-Related Jobs}}{\text{Total Number of Jobs Counted}} \times 100 = \underline{\hspace{2cm}} \% \text{ are Non- Science-/Math-/Technology-Related Jobs}$$

- Calculate the number of degrees out of your entire pie graph circle (360 degrees total) each job percentage would equal. Do this by finding the percentage of 360 represented by the job type.

For example, if the percentage of science related jobs is 45 percent, then  $0.45 \times 360 \text{ degrees} = 162 \text{ degrees}$ .

Do your work here:



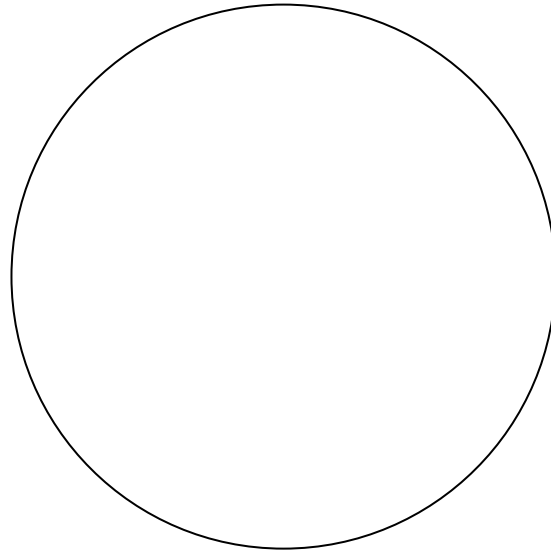
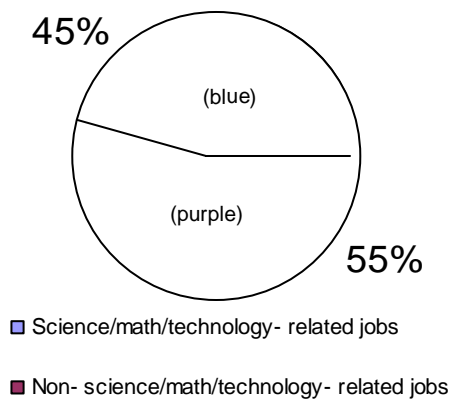
## Chart

1. Using a protractor, mark off the number of science-/math-/technology-related jobs on the pie chart circle below. The rest of the circle will be the percentage of non-science-/math-/technology-related jobs listed.
2. Color each job type a different color and provide a key for the colors on the graph.

### The Sunday Classifieds Pie Chart

Representing the percentage of science-/math-/technology-related jobs compared to non-science-/math-/technology-related jobs

Example



Student Name \_\_\_\_\_

Family Members \_\_\_\_\_