

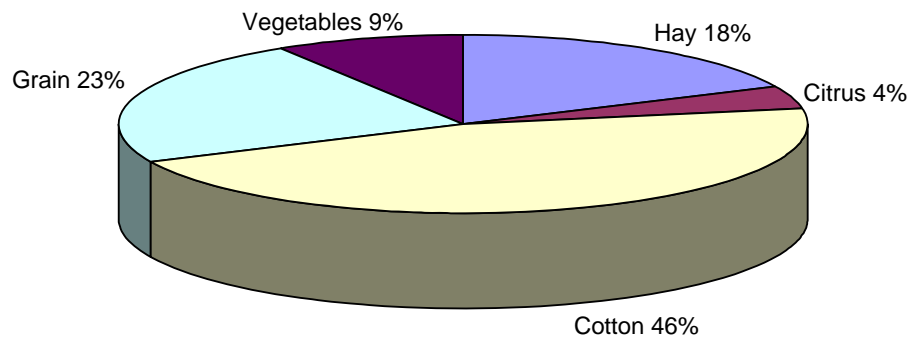
**PROBLEM-OF-THE-DAY: ALGEBRA 1****WEEK:** November 26 to November 30**DAY:** Monday

**RISD Objective:** Given a circle (pie) graph, students will use it to answer questions, applying or finding the percents as necessary.

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**PROBLEM #63**

**Principal Crops (number of acres)**



The total acreage used for crops is 910,100.

1. How many acres are used for hay?
2. How many acres are used for both cotton and grain?
3. If the total acreage is increased to 1,000,000 and the same percentage is used, how many acres would be used for Citrus?

**MODEL SOLUTION #63**

- 1. To find out how many acres are used for hay, change 18% to decimal and then multiply decimal by total acreage used for crops.**

$$(0.18)(910,100) = 163,818$$

**There are 163,818 acres used for hay**

- 2. To find out how many acres are used for cotton and grain change the percentages to decimals add them together and then multiply it by total acreage used for crops.**

$$(0.46 + 0.23) = 0.69$$

$$(0.69)(910,100) = 627,969$$

**There are 627,969 acres used for cotton and grain.**

- 3. To find out how many acres are used for citrus change 4% to decimal, which is 0.04 and multiply it by the new total acreage.**

$$(0.04)40,000(1,000,000) = 40,000$$

**There are 40,000 acres used for citrus if the acreage is increased to 1,000,000.**