9) "Arachibutyrophobia" is the fear of peanut butter getting stuck to the roof of your mouth. In a survey of 150 people, 2% of them have arachibutyrophobia. How many people surveyed have this fear?

10) When making peanut butter and jelly sandwiches, 20% of people put the peanut butter on first. Out of 75 people, how many people would NOT put peanut butter on first?

Finding the "Whole" when Given the Percent

Example:

There are 14 candies in a bag that is 20% full. How many candies are in a full bag?

USE A TAPE DIAGRAM

Whole: Unknown (# of candies in full bag) Part: 14 candies Percent: 20%



11) At ECMS, about 25% of the 6th graders made an A in math. If there are 416 6th graders, how many made an A?

12) Last year, ECMS had 1280 students. If we have 110% of that amount this year, how many students are at ECMS this year?

If there are 14 candies in 20%, then there are 14 candies in each of the other 20% sections of the diagram. The total number of candies in the bag is the sum of all the quantities: 14 + 14 + 14 + 14 + 14 = 70 or 14(5) = 70.



Thus, there are 70 candies in a full bag.

You Try:

Use one of the methods you have learned to solve the following р

Problem Solving with Percents

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