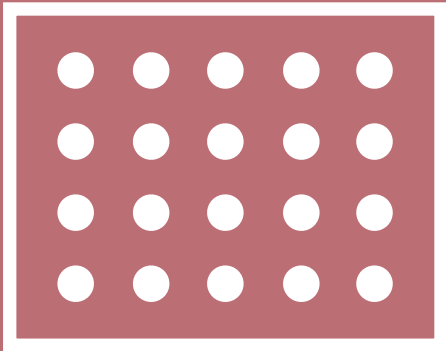


Math in the Garden



$$5 \times 4 = \text{flower with question mark}$$

Many garden seeds need to be planted with some distance between them. Following the directions on a package of seeds, calculate how many seeds will fit across the length and width of your garden or a plot of gardening space. How many seeds will you need to fill the entire space?

Many beans, such as green beans or lima beans, grow very quickly. Try to estimate how many days it will take for the bean sprout to reach 10 centimetres and 20 centimetres. Using a ruler, measure how tall your bean sprout is each day and keep track of its growth using a chart. For an extra challenge, use your chart to create a graph showing your bean sprout's growth over time!



The Fibonacci sequence is a series of numbers where each number is the sum of the two before it. Here is the beginning of the sequence:

1, 1, 2, 3, 5, 8, 13, 21, 34...

The number of petals a flower has is often a number that occurs in this sequence. How many flowers can you find that fit this pattern?

When your tomatoes are ready to harvest, pick three that are different in size. Estimate, then measure the circumference of each tomato. Estimate the number of seeds in the first tomato. Next, cut the tomato in half and count the seeds to find the actual number of seeds. Continue with the other tomatoes. Use the information from the first tomato to help make your estimate for the next one. Does the size of a tomato help you estimate the number of seeds? How many tomato plants could you grow from just one tomato?



24m²

How many different rectangular-shaped gardens can be designed that have an area of 24m²? Are some shapes better than others? Why? Which garden would require the most fencing? The least fencing?

Make a bar graph of the different types of plants in your garden. How many different ways can you sort the plants into categories to create your bar graph? By colour? By number of petals? By type of flower?



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