Multiplying Seeds for Your Garden

Grade 5 | Math | Nonfiction | Gardening Theme | ~149 words | CCSS.MATH.5.NBT.B.5

Name: _____ **Date:** _____

READ — READ THIS PASSAGE CAREFULLY. YOU MAY READ IT TWICE.

Growing a successful garden requires understanding multiplication. When planning a vegetable garden, gardeners must multiply quantities to determine how many seeds they need. For example, if you want to plant tomato seeds in six rows with twelve seeds per row, you multiply 6 × 12 to get 72 seeds total. This same strategy applies to other plants. A gardener planting carrots might arrange seeds in eight rows of fifteen seeds each, requiring 8 × 15 = 120 seeds. Understanding multiplication also helps when calculating garden supplies. If each plant needs three cups of soil and you have twenty plants, multiplying 20 × 3 equals sixty cups of soil needed. Many gardeners create multiplication charts to track their planting plans. These charts list the number of rows and seeds per row, making it easy to calculate totals quickly. By using multiplication skills, gardeners can plant efficiently and grow abundant harvests.

Tip: Read the passage twice before turning to the questions on the next page.

Multiplying Seeds for Your Garden

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✏ **ANSWER** *USE THE PASSAGE ON PAGE 1 TO HELP FIND YOUR ANSWERS.*

MAIN IDEA

1. What is this passage mostly about?

TEXT EVIDENCE

2. According to the passage, how many tomato seeds does a gardener need for six rows with twelve seeds per row?

VOCABULARY

3. What does the word 'abundant' mean in the passage?

INFERENCE

4. Why would a gardener want to create a multiplication chart for their garden?

CAUSE AND EFFECT

5. What happens when a gardener understands how to use multiplication in their garden?

TEXT EVIDENCE

6. How much soil is needed if a gardener has twenty plants and each plant needs three cups of soil?

✓ ANSWER KEY — Multiplying Seeds for Your Garden

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TEACHER / PARENT USE ONLY — Suggested answers shown below each question

Growing a successful garden requires understanding multiplication. When planning a vegetable garden, gardeners must multiply quantities to determine how many seeds they need. For example, if you want to plant tomato seeds in six rows with twelve seeds per row, you multiply 6 × 12 to get 72 seeds total. This same strategy applies to other plants. A gardener planting carrots might arrange seeds in eight rows of fifteen seeds each, requiring 8 × 15 = 120 seeds. Understanding multiplication also helps when calculating garden supplies. If each plant needs three cups of soil and you have twenty plants, multiplying 20 × 3 equals sixty cups of soil needed. Many gardeners create multiplication charts to track their planting plans. These charts list the number of rows and seeds per row, making it easy to calculate totals quickly. By using multiplication skills, gardeners can plant efficiently and grow abundant harvests.

MAIN IDEA

1. What is this passage mostly about?

The passage is mostly about how gardeners use multiplication to plan their gardens and calculate seeds and supplies needed for planting.

TEXT EVIDENCE

2. According to the passage, how many tomato seeds does a gardener need for six rows with twelve seeds per row?

The passage states that multiplying 6 × 12 equals 72 seeds total for the tomato garden.

VOCABULARY

3. What does the word 'abundant' mean in the passage?

Abundant means large in quantity or plentiful, as shown when the passage says gardeners grow 'abundant harvests' by using multiplication skills.

INFERENCE

4. Why would a gardener want to create a multiplication chart for their garden?

A gardener would create a multiplication chart to organize their planting information and quickly calculate how many seeds and supplies they need without making mistakes.

CAUSE AND EFFECT

5. What happens when a gardener understands how to use multiplication in their garden?

When a gardener understands multiplication, they can plant efficiently and grow abundant harvests because they calculate the correct amounts of seeds and supplies needed.

TEXT EVIDENCE

6. How much soil is needed if a gardener has twenty plants and each plant needs three cups of soil?

According to the passage, multiplying 20 × 3 equals sixty cups of soil needed for all twenty plants.