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| First Name: _____ | Last Name: _____ | Grade: _____ |
| Teacher: _____ | Parent's email: _____ | |


Spring is Here!

Welcome to Math Challenge #12. Spring is here, bringing warmer days and a world full of color and life! This challenge is filled with exciting, spring-themed math problems to sharpen your problem-solving skills. Join us as we explore gardens filled with colorful flowers, watch butterflies flutter by, and solve puzzles inspired by gardening, fresh green grass, and playful grasshoppers. Each problem will stretch your critical thinking and creativity while celebrating the beauty of spring. Get ready to grow your math skills and have fun along the way!

Kinder & First Grade: solve at least 3 problems.
Second & Third Grade: solve at least 7 problems.
Fourth Grade and above: solve at least 12 problems.

| | <i>Answer</i> |
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| 1. Five flower bouquets are taken from the group of bouquets (shown at the right). How many bouquets are left? <div style="text-align: center; margin-top: 10px;"> </div> | |
| 2. There are 12 houses on your street. As spring arrives, all but one of the houses have gardens full of flowers. How many houses have gardens filled with flowers? | |
| 3. If + = 5 and + = 8, what is the value of + ? | |
| 4. Lily is planting a flower garden. She plants 3 rows of tulips, with 5 tulips in each row. She also plants 2 rows of daisies, with 3 daisies in each row. How many flowers does Lily plant in total? | |
| 5. How many flowers are there in Mrs. Lam's Garden? Here are some clues: <ul style="list-style-type: none"> There are more flowers than the number of days in March. There are less flowers than the product of 5 and 7. The answer is an odd number. | |
| 6. Anya planted a rectangular flower bed with 6 rows of tulips, and each row contains 8 tulips. She wants to have a total of 60 tulips planted. How many more tulips does she need to plant to reach her goal? | |

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| 7. | Thirty one fourth-grade students are going to a botanical garden for a field trip. Each van can hold ten people. Five chaperones are going on the trip with the students. How many vans are needed to take the students to the botanical garden? | |
| 8. |  <p>Malika and Vidhya are selling lemonade. Each pitcher of lemonade can fill 10 cups. They sell each cup for \$2. If they sell 3 pitchers full of lemonade, how much money do they make from selling lemonade?</p> | |
| 9. | <p>A butterfly flutters 5 feet forward, then 2 feet backward, repeating this pattern. Each flutter (either forward or backward) counts as one move. If the butterfly needs to reach a flower that is 20 feet away, how many moves will it take to get there?</p> |  |
| 10. | At a spring festival, adult tickets cost \$9, and child tickets cost \$5. A family spends \$87 on tickets, purchasing four times as many child tickets as adult tickets. How many child tickets did the family purchase? | |
| 11. |  <p>The first day of spring falls on Monday. A sunflower seedling grows 2 cm on the first day of spring. Each subsequent day, it grows 1.5 times the amount it grew the day before. On which day does it reach 10 cm in height?</p> | |
| 12. | <p>Three grasshoppers are jumping in a field in the same direction. Each one follows a different pattern:</p> <ul style="list-style-type: none"> • The first grasshopper jumps 3 feet each time. • The second grasshopper jumps 5 feet each time. • The third grasshopper jumps 7 feet each time. <p>If all three grasshoppers start at the same spot, at what distance, in feet, will they first land together again?</p> |  |
| 13. | A rectangular garden is to be planted in the spring. Its length is 4 meters longer than twice its width. The perimeter of the garden is 80 meters. What is the area, in square meters, of the garden? | |

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| <p>14. Emma, Leo, Mia, and Noah are sitting at a circular table with 4 chairs. If they can sit in any order around the table, how many distinct seating arrangements are possible? (Two arrangements are considered the same if one can be rotated into the other.)</p> | |
| <p>15. Liam wants to build a rectangular vegetable garden with a perimeter of 24 feet. The length of the garden must be at least 3 feet more than the width. How many possible sets of whole-number dimensions (length and width) can his garden have? An example of dimensions is 11 feet by 1 foot and this dimension is considered the same as 1 foot by 11 feet.</p> | |
| <p>16. A group of friends plans a trip to see the beautiful tulips field. They drive 154 miles to Skagit Valley. If their car gets 28 miles per gallon of gas and the gas price is \$3.95 per gallon, how much will they spend on gas for the round trip?</p> |  |
| <p>17. A school places a large rectangular bin outside to collect rainwater. The bin has:</p> <ul style="list-style-type: none"> • A base of 4 feet by 3 feet • A height of 1.5 feet <p>If it rains constantly 2.5 inches per hour, how long, in hours and minutes, will it take to fill the bin completely?</p> | |
| <p>18. Three friends went flower picking and gathered a total of 99 tulips. In the first tulip field, each of them picked the same number of tulips. In the second field, each of them picked twice the number of tulips they had picked in the first field. In the third field, they picked a total of 18 tulips together. If each person picked the same number of tulips as the others in each field, how many tulips did each person pick from the first field?</p> | |

Solution is available on March 21, 2025
www.mathinaction.org