## 2023 Mission Math Utah Spring Competition (K-2)

You will have 40 minutes to complete as much of this test as you can. There are 30 free response questions total, and questions are arranged roughly from easiest to most difficult. Units are not needed. Write answers on the given line below each question. Calculators are not allowed. Do not begin the test until told to do so. Good Luck!

| Full Name:                       |  |
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| Grade: _                         |  |
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| 1. | What is the value of $1 + 2 + 3$ ?   |                     |
|----|--|---------------------|
| 2. | Utah has 5 national parks and Nevada has 2 national parks. How many national and Utah have together?                                 | parks do Nevada     |
| 3. | If Tom has 10 pumpkins and Louis has 230 pumpkins, how many pumpkins do the  | hey have altogether |
| 4. | Dr. Jonas is writing a math test for his students. He has written 14 problems an test. How many more problems does he need to write? | d wants 22 for his  |
| 5. | If Tony has 25 pomegranates, and Sophie has 32 pomegranates, how many pomeghave together?  | granates do they    |
| 6. | John draws 2 numbers from a box. If the sum of the two numbers is 5, and the figure what is the second number?                       | irst number is 3,   |
|    |  |                     |

| 7.  | Dr. Jonas is writing a math test for his students. He has written 14 problems and test. How many more problems does he need to write? | d wants 22 for his |
|-----|---|--------------------|
| 8.  | Find the next number in the pattern: 1, 3, 5, $\dots$   |                    |
| 9.  | Tom is looking for treasure chests. On his first day he finds 2 chests. On the seco chests. How many chests did he find in total?     | nd day he finds 3  |
| 10. | Alex had 6 coins. Yesterday, he gave 2 coins to his friend. Today, he gave 2 more friend. How many coins does Alex have now?          | coins to the same  |
| 11. | Sally has 8 stickers and she wants to give 2 stickers to each of her 3 friends. How Sally have left for herself?                      | many stickers will |
| 12. | What is the value of $5 \times 9 + 5 + 9$ ?   |                    |
|     |   |                    |

| 13. | If $x + 1 = 4$ , what is the value of $3x + 3$ ?   |                      |
|-----|--|----------------------|
| 14. | Jeffrey is making cup<br>cakes. He uses 2 scoops of sugar for 30 cookies. How many he need for 90 cookies?   | scoops of sugar does |
| 15. | Jake makes $60$ dollars a month. How many dollars does he make in $3.5$ months?  |                      |
| 16. | Zach has a secret number. He multiplies the secret number by 2, adds 7 to the resultracts 8 from the result, ending up with 5. What is Zach's secret number?   | esult, and then      |
| 17. | A square has side length 4. The perimeter of a square is the sum of all side lengt What is the perimeter of the square?  | hs of the square.    |
| 18. | When eating chocolates, Freddy can either eat 2 at a time, or 3 at a time. It take eat either 2 or 3 chocolates at a time. If he has 12 chocolates, what is the different longest and shortest times it would take Freddy to eat all the chocolates? |                      |
|     |  |                      |

| 19. | Optimus Prime has decided to visit different planets in the galaxy. It takes him any planet to another, and he will stay on each planet for one day to enjoy the vi will it take him to fly from Earth to 5 different planets and then back to earth? (spend a day to enjoy the view on Earth). | iew. How many day  |
|-----|---|--------------------|
| 20. | Freddy the frog is jumping from lilly pad to lilly pad. He notices that some of the flower on them, while others don't. If he jumped on 60 lilly pads on his journey a flowers on them, how many lilly pads didn't have flowers on them?  |                    |
| 21. | Compute $-3 \times (4+5) \times (6-8) + 12$ .   |                    |
| 22. | Find the value of $6 \times 4 \times 2 - 5 \times 3 \times 1$ .   |                    |
| 23. | Alex, Ben, and Charlie run in a race. Someone will win, someone else will get sec one will get third. How many different ways can the race end?   | cond, and the last |
| 24. | If 3 dings is equal to 4 dongs, How many dings are equivalent to 24 dongs?  |                    |
|     |   |                    |

| 25. | Jar Jar goes to the store and buys 10 pillows for $3.00$ each and 12 blankets for $much money does he spend in total?$  | 1.00 each. How      |
|-----|---|---------------------|
| 26. | Rio the dog loves playing outside. If Rio plays outside for 30 minutes on weekday weekends, how many minutes does Rio play outside in a week?   | s and 60 minutes on |
| 27. | Shrek and Donkey start 3 miles apart from each other and run toward each other same time. Shrek runs at 2 miles/hour and Donkey runs at 1 mile/hour. How matake for Shrek and Donkey to meet? |                     |
| 28. | If $2A + 3B = 26$ , and $3A + 2B = 24$ what is $A + B$ ?  |                     |
| 29. | 13% of what number is $2.99$ ?  |                     |
| 30. | Jade drives down to St. George at 60 miles per hour and drives back at 84 miles that the distance to St. George is 840 miles, what is Jade's average speed, in miles                          |                     |
|     |   |                     |