



Mental Math 5th/6th

Person 1

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| 1 | Evaluate six to the third power. |
| 2 | What is the sum of the first 5 odd integers? |
| 3 | How many ways are there to rearrange the letters in the word ranch, R-A-N-C-H? |
| 4 | What is the positive difference between 5321 and 4104? |
| 5 | What is the greatest common factor of 18 and 64? |

Person 2

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| 1 | What is 3 plus 4 plus 7 plus 9 plus 14? |
| 2 | How many factors does the number 12 have? |
| 3 | If the two legs of a right triangle are 6 and 13, what is the area of the triangle? |
| 4 | Evaluate 14 times the quantity of $12 - 7$. |
| 5 | What is the volume of a cube with side length 4? |

Person 3

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| 1 | Martha has a drawer with 6 blue socks, 5 red socks, and 8 white socks. How many socks must be drawn to ensure she gets at least one pair of the same color? |
| 2 | What is the surface area of a cube with side lengths of 5? |
| 3 | What is the product of 14 and 73? |
| 4 | How many ways are there to rearrange the letters in the word grapes, G-R-A-P-E-S? |
| 5 | What is the volume of a rectangular prism with a length of 3, height of 7, and a width of 8? |

Person 4

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| 1 | Jason has a bag of 9 purple marbles, 3 pink marbles, and 6 blue marbles. What is the probability he picks out a pink marble without looking into the bag? Simplify your answer. |
| 2 | If the sum of two angles in a triangle is 67 degrees, what is the third angle? |
| 3 | If $3x$ plus 4 equals 16, what is the value of $2x$? |
| 4 | If a car travels 24 miles an hour, how long, in minutes, will it take for the car to travel 168 miles? |
| 5 | Evaluate $6 + 9 + 5 + 19$ |