



Mental Math 5th/6th

Person 1

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| 1 | The area of a triangle is 24 units squared. If the base of this triangle measures 12 units, what is its height? |
| 2 | What is the sum of the number of sides on a triangle, a square, and a hexagon? |
| 3 | Today is Saturday, December 4 th , 2010. What day of the week will it be 29 days from now? |
| 4 | A 45 foot long rope is cut into 9 equal pieces. If y cuts were made and each piece is x feet long, what is $x + y$? |
| 5 | Compute the product: 19 times 25. |

Person 2

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| 1 | What is the largest prime number less than 50? |
| 2 | What is one-half plus two-thirds? Express your answer as an improper fraction. |
| 3 | What is 15 percent of 80? |
| 4 | If $4x$ minus 4 equals 16, what is the value of x ? |
| 5 | How many <i>even</i> numbers are between 20 and 70 if you don't count 20 and 70? |

Person 3

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| 1 | What is the sum of the <i>distinct</i> prime factors of 36? |
| 2 | 2 to the power of x is equal to 64. What is the value of x ? |
| 3 | What is the remainder when 9343 is divided by 3? |
| 4 | A circle has a circumference of 24π units. What is its area? |
| 5 | What is the greatest common divisor of 60 and 80? |

Person 4

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| 1 | Joe has twice the number of M&Ms as Todd. If they have 54 M&Ms combined, how many M&Ms does Todd have? |
| 2 | It takes 15 workers 36 hours to build a school. How many hours would it take 10 workers to build the same school if they work at the same rate? |
| 3 | If I roll two fair, six-sided dice, what is the probability that I roll a sum of 2, 3, or 11? |
| 4 | Find the sum of 1, plus 2, plus 3, and so on, up to 11. |
| 5 | 1 apple is worth 3 pears. 6 pears are worth 14 bananas. How many apples are worth 28 bananas? |