



Mental Math 5th/6th

Person 1

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| 1 | If it takes Amy one minute to cut an apple, how many apples can she cut in half an hour? |
| 2 | What is the value of three to the power of four? |
| 3 | Emily runs at a speed of three miles per hour. After 40 minutes, how many miles has Emily run? |
| 4 | Sue has 23 gumballs, which she can split up between her six friends and herself. If each of her friends must receive the same integer number of gumballs, and Sue wants at least four gumballs for herself, what is the largest number of gumballs each friend can receive? |
| 5 | The average of the consecutive numbers a , b , and c is 42. What is the value of b ? |

Person 2

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| 1 | What is the area of a circle with a diameter of six? |
| 2 | Through which quadrant does the line $4y - 3x = 7$ NOT pass? |
| 3 | Tickets to the show cost six dollars. One night, the total ticket revenue was 1248 dollars. How many tickets were sold that night? |
| 4 | What is the sum of the first, second, and third powers of two? |
| 5 | Kevin is 20 years old. 15 years ago, his cousin was twice as old as him. How old his is cousin currently? |

Person 3

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| 1 | Ethan takes four squares, each with a side length of three, and puts them together to form one large square. What is the area of the new square? |
| 2 | Find the next term in the following sequence: 11, 15, 19, 23 |
| 3 | The average tomato has 114 seeds. On average, how many seeds do five tomatoes have? |
| 4 | A square has an area of 196. What is its perimeter? |
| 5 | What is the probability of rolling the same number twice in a row on a fair die? |

Person 4

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| 1 | Marcel can read four pages in five minutes. How many pages can he read in an hour? |
| 2 | Amy is playing a video game. The first level takes her one minute to complete, the second level takes her two minutes to complete, the third level takes her three minutes to complete, and so on. After 20 minutes have passed, which level is she playing? |
| 3 | A box of floss has 30 yards of floss. Sylvia uses 18 inches of floss each day. How many days will it take for her to use the entire box of floss? |
| 4 | A rectangle lies in the coordinate plane. Three of its vertices have coordinates $(3, 2)$, $(4, 2)$, and $(4, 4)$. What are the coordinates of the last vertex? |
| 5 | What is the largest integer less than 96 that evenly divides 96? |