



Mental Math 7th/8th

Person 1

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| 1 | Hokwen took three biology tests and received scores of 92, 87, and 100. What was his average score? |
| 2 | For each gold coin Mario collects, he gets 10 points. For each Yoshi coin he collects, he gets 2000 points. If he collects 200 gold coins and 5 Yoshi coins, how many points does he get? |
| 3 | Ronald McDonald collected 300 pounds of cheeseburgers. However, the Burger King snuck in and ate 225 pounds of Ronald's burgers. What percent of his original collection does Ronald have now? |
| 4 | What is the positive difference between the greatest common factor and least common multiple of 6 and 30? |
| 5 | Jesse's computer screen measures 16 inches by 12 inches. If each square inch of screen contains 100 pixels, how many pixels does the screen have? |

Person 2

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| 1 | When Shawn plays Tetris, he clears 4 lines every 5 seconds. If he plays for 3 minutes, how many lines does he clear? |
| 2 | It takes Pac-Man 9 seconds to catch one ghost. Each ghost thereafter takes him 3 more seconds to catch than the ghost before it. How long will it take Pac-Man to catch six ghosts? |
| 3 | What is 1024 minus 768? |
| 4 | An isosceles right triangle has a leg measuring 8 inches. What is its area? |
| 5 | Ferrero Rocher makes spherical chocolate treats of radius 2 centimeters. What is the volume of 3 Ferrero Rocher chocolates, in cubic centimeters? |

Person 3

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| 1 | A high school student eats three meals every day at exactly 6 AM, 12 PM, and 7 PM. What is the greatest amount of time, in hours, that the student goes between meals during a week? |
| 2 | It is cloudy with a chance of meatballs! Tifa is eating spaghetti and needs meatballs. She goes outside to gather meatballs at different times during the day, and picks up 4 meatballs at 1:00 pm, 7 meatballs at 3:00 pm, 2 meatballs at 4:00 pm, and 11 meatballs at 6:00 pm. What is the average number of meatballs Tifa picked up each time she went outside? |
| 3 | Homer is standing at the origin of a coordinate plane. What is the minimum distance he must walk to obtain a cheeseburger at the point 5 comma 12? |
| 4 | Snoopy is waiting for suppertime. He knows that he gets his supper at 6: 00 pm and it is currently 4: 40 pm. How many degrees will the hour hand on an analog clock travel between now and suppertime? |
| 5 | Ron can eat M&Ms at a rate of 15 M&Ms per <u>second</u> . Neville can eat M&Ms at a rate of 40 M&Ms per <u>minute</u> . In the time it takes Ron to finish 45 M&Ms, how many M&Ms has Neville eaten? |

Person 4

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| 1 | My vacation house is 100 miles away. I drove 60 miles per hour there, and 50 miles per hour on the way back. How much total time, in minutes, did I spend driving? |
| 2 | What is 4978 plus 125? |
| 3 | I have 6 distinct cookies. In how many ways can I choose 2 of them to eat for lunch if I don't care what order I eat them in? |
| 4 | Harry Potter likes eating Bernie Bott's Every Flavor Beans. Hermione has charmed all the beans in Harry's bag so there are 2 coffee-flavored jelly beans, 4 lemon-flavored jellybeans, 5 dirt-flavored jellybeans, and 3 earwax-flavored jelly beans. What is the probability that Harry gets a lemon jellybean on his first draw? |
| 5 | At what point do the lines $y = 2x - 3$ and $y = 3x - 2$ intersect? |

Did we make you hungry yet? Go have lunch!

Don't forget that there are goodies available at the concession stand!