



Mental Math 5th/6th

Person 1

1	Evaluate: Three times eight plus eight minus two squared.
2	What is the diameter of a circle with an area of thirty-six pi square centimeters?
3	In how many distinct ways can I rearrange the letters in the word "FOO," F-O-O?
4	What is the slope of the line with equation two x plus five y equals one hundred?
5	What is the sum of the first five positive even integers?

Person 2

1	What is thirty percent of four hundred?
2	Ethan, Ming, and Nathaniel all have different lunches. One has a warm hamburger, one has microwaved cheese pizza, and the other has a salad. If Ming is a vegetarian, and Nathaniel always eats a cold lunch, who has the hamburger?
3	Jeff rolls two regular six-sided dice. What is the probability that the sum of the numbers on the top faces of the dice is three?
4	Genevieve has fifty marbles. She feels generous, so she gives half to Marissa and one-fifth of the remainder to Meghan. How many marbles does Genevieve have left?
5	Evaluate: seven fifths plus one third.

Person 3

1	Evaluate: eight times twelve.
2	Timmy orders a pizza with a diameter of sixteen inches. In square inches, what is the area of the pizza?
3	Paulina's refrigerator has three magnets from Hawaii, two from Alaska, four from New York, and one from San Jose. If she randomly picks a magnet to stick a shopping list to the refrigerator, what is the probability that she picks a magnet from Alaska?
4	What is the sum of the number of sides of a triangle and the number of vertices of a pentagon?
5	What is the largest two-digit integer that evenly divides fourteen?

Person 4

1	Austin started running a marathon at eight thirty am, and finished six hours and thirty three minutes later. At what time did he finish?
2	Evaluate: five squared plus four squared plus three squared.
3	The world record for the high jump is seven point six feet. If I can jump five point nine feet, how much higher must I jump to match the world record? Express your answer as a decimal number of feet.
4	What is the volume of a piece of cheese shaped like a rectangular prism if it has edges of lengths three, five, and two?
5	What is the sum of the positive integer factors of ten?

