



Speed Math 5th/6th

1	Evaluate: $5 + 5 \times 5 - 5 \div 5 \times 5$
2	Find the product of 2, 4, and 8.
3	What is the positive difference between the square and cube of 4?
4	A square has side length 7 centimeters. What is its area, in square centimeters?
5	What is 50% of 50% of $\frac{1}{5}$?
6	How many positive integer factors does 12 have?
7	Evaluate: $(5 + 5) \times 5 \div 5 \div (5 + 5) - 5$
8	Simplify: $\sqrt{125}$
9	3 girls and 9 boys attend a math club meeting. What percent of the attendees are male?
10	Evaluate: $62 + 17$
11	If $a = 3$, $b = 4$, and $c = 5$, what is the value of $a + b - c$?
12	What is the sum of 12 and 13?
13	A right triangle has one side 5 cm long and has area 30 cm^2 . What is the length of the longer leg, in centimeters?
14	Evaluate: $20 \div 25$
15	What is the area, in square units, of a rectangle with length 2 units and width 6 units?
16	Which is greater: 3^4 or 2^6 ?
17	Thomas has taken 4 math tests this year, and his average is 88. What must he get on the next test to achieve an average of 90?
18	A circle has radius $\frac{x+3}{2}$ inches. If its circumference is 10π inches, what is its area?
19	What is the area, in square units, of a triangle with base 200 units and height 99 units?
20	Jennifer wants to frame a 6" by 8" photo with a two-inch-wide border. How many square inches are in the border?
21	Evaluate: $6.55 + 1.545$ (Express your answer as a decimal.)
22	What do you call a polygon with ten sides?
23	What is 35% of 40?
24	Evaluate: $\frac{2}{7} + \frac{3}{5}$

25	Solve for α : $209 = 3\alpha + 8$
26	What is the sum of the positive integer factors of 49?
27	18 is 60% of what number?
28	What is the area, in square meters, of a circle with radius $\sqrt[4]{256}$ meters?
29	What is the sum of the first 25 positive integers?
30	Find the greatest common factor of 24 and 36.
31	I was making cookies, but they wouldn't fit on the baking sheet! When I arranged them in rows of four there was one left over. When I arranged them in rows of five there was one left over. When I arranged them in rows of six there was one left over. What is the least number of cookies I could have made?
32	Evaluate: 10100×9900
33	If a point starts at coordinates (10,10) and moves two units down and five units left, what are the new coordinates?
34	Find the least common multiple of 15 and 9.
35	Brian has 4 apples for every 3 pears and 5 mangos for every 2 apples. If he has 34 fruits total, how many pears does he have?
36	Evaluate: 21^2
37	How many even integers are there between, but not including, -10 and 10 ?
38	What is the sum of the integers between -3 and 5 , inclusive?
39	The binary number 101_2 is equal to what number in decimal?
40	If $3x + 2y = 9$ and $x + y = 4$, what is the positive difference between x and y ?
41	Arnie has a fair 4-sided die and a fair 5-sided die. If he randomly chooses one die and rolls it, what is the probability that he rolls an odd number? (<i>Express your answer as a common fraction.</i>)
42	What is the sum of all the prime numbers between 1 and 10?
43	What is the remainder when 2009 is divided by 12?
44	In how many ways can \$0.30 be made with nickels, dimes, and quarters?
45	I flip a fair, two-sided coin 4 times. What is the probability I get (in this order): head, tails, tails, head?
46	Given that $y = 5$, evaluate x : $5x = 5y + 5$
47	In what quadrant is the point (69, 552) located?
48	How many degrees does the hour hand travel on a 12-hour clock between 2:00 and 4:00?

49	What's the next number in this sequence? 1, 1, 2, 3, 5, 8, 13, 21, 34, __
50	What is the smallest prime number greater than 200?

Thought you were almost done? Not so fast! Try tackling these! (evil laugh)

51	Square the day number of today's date, divide it by 9, multiply by 16, subtract 156, and then cube it.
52	What is the product of the first 5 odd integers greater than 4?
53	Take the question number, multiply it by 42, divide by 3, and divide by 7.
54	The circumference of a circle is 25. What is the radius?
55	There are 6 types of fruit, 3 types of meat, and 2 types of vegetables. In how many different ways can a meal be chosen if a person has to pick one of each?
56	The unit imaginary number i is defined as $i = \sqrt{-1}$. What is the value of i^4 ?
57	Mr. Nonis gave his students a test on trigonometric identities. The resulting scores were 45, 26, 72, 38, 91, 27, 4, 10, 27, and 100. What is the probability that any given student scored above the average score? (<i>Express your answer as a common fraction.</i>)
58	Andrew has a CD with 8 songs on it. With his CD player on shuffle, in how many ways can he play each song exactly once?
59	When Michael and Kevin play chess, Kevin has a 67% chance of winning and there is an 8% chance that they tie. What are the odds against Kevin losing? (<i>Express your answer as a simplified ratio in a:b form.</i>)
60	I have an infinite number of 7-cent pieces and 4-cent pieces. What is the largest integer number of cents I cannot make with those pieces?