



# Speed Math 5th/6th

1	Evaluate $35 \times 34$ .
2	What is the area of a rectangle with side lengths 5 and 13?
3	Siri found seven gas stations, four coffee shops, and eight restaurants close to you. How many locations did Siri find in total?
4	What is the perimeter of a square with area sixteen?
5	When I flip two coins, what is the probability that they are both tails?
6	How many faces does an octahedron have?
7	What is the sum, in degrees, of the measures of the exterior angles of a pentagon?
8	What is the next term in the sequence: 100, 91, 82, 73, 64, ___?
9	There are seven stars in the Little Dipper constellation. If I randomly pick one of the stars, what is the probability that it is the North Star?
10	Clarissa randomly draws a card from a deck of 52 cards. Sebastian guesses which card she drew. What is the probability that he is correct?
11	What is the area of a trapezoidal cracker with bases of length four and six and a height of three?
12	Evaluate $729 - 394 - 295$ .
13	Find the equation of the line that passes through the points (2,4) and (0,10).
14	Diana eats four apples a day. How many apples does she eat in a week?
15	Gary ate thirty M&Ms. If ten of them were green, seven of them were blue, and the rest of them were red, how many of them were red?
16	Foris rolls two eight-sided dice and adds the numbers together. What is the probability that he obtains a sum of 5?
17	The second term of an arithmetic sequence is six, and the fourth term is nine. What is the sixth term?
18	The line $2x + y = 5$ passes through three quadrants of the coordinate plane. Through which quadrant does it not pass?
19	Thirteen people meet for a business meeting. Each person shakes hands exactly once with every other person. How many handshakes occur?

20	What is the difference between the largest and smallest number of pieces into which five distinct cuts can cut a pizza?
21	Find the remainder when $5^{38}$ is divided by 4.
22	Newport Math Club is selling 100 t-shirts, 20 of which are red. If a total of 70 of the t-shirts are size extra-large, what is the smallest number of red, extra-large t-shirts that Newport Math Club could be selling?
23	My math teacher assigned me problems 17 through 64 for homework. How many problems do I have to do?
24	Candace is playing a game where she guesses how many rolls of a six-sided die she needs to roll a six. What is the expected number of rolls needed?
25	Find the remainder when $2012 + 2013$ is divided by 3.
26	Aaron and Matt are playing rock paper scissors to decide who gets the last brownie. What is the probability that Aaron wins in the first round?
27	Francine has three hats, four scarves, and seven pairs of gloves. How many different outfits consisting of one hat, one scarf, and one pair of gloves could she make?
28	There are 18 rabbits in a hat. Five of them are brown, three are black, and the rest are purple. If I randomly pull out a rabbit, what is the probability that it is purple?
29	What is the prime factorization of 153?
30	What is the greatest common factor of 105 and 42?
31	Alan has some coffee in a cup, while Brian has an equal amount of milk in a cup. Brian pours half of his milk into Alan's cup. What fraction of Alan's mixture is coffee?
32	$ABC$ is a right triangle with $AC = 8$ , $BC = 15$ , and a right angle at $C$ . What is the length of $AB$ ?
33	Find the value of $x$ if $3x + 2y = 15$ and $x + y = 5$ .
34	Lucy was given a number by her teacher. She was supposed to multiply it by two and then square that number, but she accidentally squared the number and then multiplied it by two, ending up with the number 32. What result should she have found?
35	What is the area of a circle with a circumference of $3\pi$ ?
36	What is the smallest positive integer whose digits sum to thirteen?
37	Claire has saved $1\frac{4}{5}$ books of trading stamps. How many more books will she need to purchase a calculator worth $3\frac{3}{5}$ books? Express your answer as a mixed number.
38	Frank recorded the temperature at 7 am for each day Monday through Friday. The average temperature was $-2$ , and the temperatures for Monday through Thursday were $-5$ , $-3$ , $+6$ , and $-2$ . What was the temperature on Friday?

39	Lily leaves Seattle at noon driving south at 40 mph. One hour later, Nick follows her at 60 mph. At what time will Nick catch up to Lily?
40	Carson is trying to take a spelling test, but he is having trouble spelling "mule" because he is dyslexic. In how many ways could Carson misarrange the letters in "mule"?
41	John Grady owns horses and chickens on his Texas ranch. If his animals have a total of 19 heads and 52 feet, how many horses does he own?
42	Stuck in Asgardian prison, Loki is reading a 315 page book of Jotunheimian poetry to pass the time. If he has already read 135 pages, how many days will it take him to finish the book reading 15 pages per day?
43	Alex spends one third of a day sleeping, two hours tying his shoes, one fourth of the day in class, one twelfth of the day doing homework, and three hours eating. How many hours each day does he have left to play NarioLart?
44	The sum of the numbers $a, b, c, d,$ and $e$ is 450. If $f = 90$ , what is the arithmetic mean of $a, b, c, d, e,$ and $f$ ?
45	What is the least common multiple of 18 and 51?
46	Donna rolls a die and flips a coin. What is the probability that she gets a 1 and tails?
47	Phil and Claire have three children, all with different ages. The sum of their children's ages is 37. If Luke, the youngest, is 10, what is the greatest age Haley, the oldest, could be?
48	Square $CAKE$ has side length 4. Point $Y$ lies on $CE$ . What is the area of triangle $YAK$ ?
49	Joey has eight classes a day, and each class is fifty minutes long. How many minutes does he spend in class every day?
50	If there are seven dremms in a wem, four fremms in a drem, and two fremms in a zem, how many zems are in a wem?