



Speed Math 5th/6th

1	Evaluate: $104 \div 8$
2	Evaluate: $46 - 12$
3	Simplify: $\frac{48}{32}$
4	What is the sum of the first five positive integers?
5	What is the next term in the following sequence: 1, 4, 9, 16, 25, ...?
6	Tabitha looks at the clock and notices that it is 10:01, which is a palindrome (it reads the same forwards and backwards). In how many minutes will the next palindromic time occur?
7	What is the area, in square units, of a rectangle with length 3 units and width 8 units?
8	Each saltine cracker has 12 holes. How many holes are in 13 crackers?
9	Evaluate: 49×51
10	Ash has 6 Pokéballs, 4 of which have Pokémon in them. If he randomly picks a Pokéball, what is the probability that it will have a Pokémon in it?
11	Evaluate: $\frac{1}{7} + \frac{5}{6}$
12	What is the sum of the first 7 positive odd integers?
13	If $a = 5$, $b = 4$, and $c = 13$, what is the value of $a - (b + c)$?
14	What is the perimeter, in centimeters, of a rectangle with length 17 centimeters and width 26 centimeters?
15	What is the sum of the square and the cube of 3?
16	If a fair, two-sided coin is flipped three times, what is the probability that all three flips turn up heads?
17	Find the sum of the number of sides on a pentagon and the number of sides on a rhombus.
18	Miranda and Nick took a tough calculus test. Their average score was 80 points. Given that Miranda scored 16 points higher than Nick, how many points did Nick score?
19	If $2x + y = 5$, what is the value of $4x + 2y$?
20	What is the least common multiple of 12 and 15?
21	What is the positive difference between 2^6 and 3^4 ?

22	What is 20% of 90?
23	How many positive integer factors does 30 have?
24	What are the coordinates of the midpoint of the line segment with endpoints $(3, 4)$ and $(-5, 6)$?
25	Donald keeps ducks, snakes, and rabbits. If he has 4 ducks, 2 snakes, and 1 rabbit, how many legs do his pets have in total?
26	A colony of bacteria doubles in population every two hours. If there are originally 16 bacteria, after how many hours will there be 256 bacteria?
27	Evaluate: $1^1 + 2^2 + 3^3$
28	What is the average of $\frac{3}{4}$ and $\frac{2}{3}$?
29	There are 100 calories in a tablespoon of peanut butter and 100 calories in a slice of bread. Renee makes a peanut butter sandwich with two slices of bread and calculates that it has 500 calories. How many tablespoons of peanut butter did she use in the sandwich?
30	What is the volume, in cm^3 , of a cube with side length 7 cm?
31	How many prime numbers are between 30 and 40?
32	Coyote has 3 constellations to put in the sky. The first constellation has 5 stars, the second has 13, and the third has 8. If he randomly chooses 2 constellations to put in the sky, what is the difference between the maximum and the minimum number of stars he could use?
33	The sum of two positive integers is 24, and the positive difference between them is 18. What is the value of the smaller integer?
34	Points A , B , C , and D lie in a line in that order. The length of segment AD is 49 units, the length of segment AC is 38 units, and the length of segment BD is 13 units. How long is segment BC ?
35	Two competing math teams, each composed of four people, meet for a competition. Each member of the first team shakes the hand of each member of the second team. Each member of the first team, being more formal, shakes the hand of each of his or her teammates as well. How many total handshakes take place?
36	If three standard six-sided dice are rolled, what is the probability of rolling a sum of 4?
37	How many positive integer factors does 10 have?
38	In the 2-dimensional coordinate system, Ophelia is standing at $(2, 9)$. How far away is she from $(2, 53)$?

39	The diagonals of a rhombus have lengths 6 and 8. What is its area?
40	A trapezoid has bases of length 4 and 8 and a height of 3. What is its area?
41	What is the area of a trapezoid with bases of lengths 3 and 5 units and a height of 6?
42	How many degrees are in the smaller angle between the hands of an analog clock at 6:30?
43	January 1, 2012 was a Sunday. On what day of the week will April 1, 2012 fall?
44	Sandra rolls an icosahedral die with twenty faces numbered with the integers from 1 to 20. What is the probability that she rolls an even number?
45	What is the sum of the solutions to the equation $ 1 - x = 1$?
46	What is the sum, in degrees, of the exterior angles of a hexagon?
47	There are 9 Supreme Court justices hearing cases. In how many ways can they divide themselves into groups voting for each of two sides?
48	A bag of jellybeans with 5 flavors has 45 lemon beans, 12 coffee beans, 36 guava beans, and 7 pineapple beans. 20% of the beans are grapefruit beans. How many beans are in the bag?
49	What is the least possible product of three distinct numbers from the set $\{-\frac{1}{2}, -\frac{1}{3}, 2, 4, 5, 9\}$?
50	What is the volume of a cone with a slant height of 10 and a base radius of 6?