1. Evaluate 12 + 3 × 7 × 2 + 52 ÷ 13 - 33.

2. What is the product of the lcm and gcd of 36 and 45?

3. Compute 111 × 89.

4. Evaluate 1 + (2 + (4 + 2(1 + 3 + 2(4 - 6) × (3 + 5) + 34) + 29)).

5. What is equivalent to - - - - - - - - - (-7) ?

6. How many of the following equations have real roots: *x*2 – 2*x* + *1, x*2 – 4*x* + *4, x*2 – 5*x* + *2, x*2 – 6*x* + *14,*

*and x*2 – 7*x* + *12*

7. What is the coordinate of intersection of the lines y = 20x - 384 and y = 15x - 334

8. How many prime numbers are there in between 29 and 75? (Excluding these two numbers)

9. What is the slope of the line connecting (,) and (,)

10. The sum of the interior angles of a hexagon is 720 and sum of the interior angles of a heptagon is 900. What is the sum of the interior angles of pentagon?

11. Evaluate 111 + 123 + 234 – 345 + 678 - 89.

12. Evaluate .

13. What is the length of the hypotenuse of a right triangle that has the legs with lengths of 15 and 8?

14. Express as a common fraction.

15. How many positive integers are smaller than the square root of 100?

16. Which of the following is the largest: 29, 36, 44, 54.

17. Compute 5.3 × 5.7.

18. What is the largest root of the equation *x*3 – 6*x*2 + 9*x* = 0?

19. Compute the average of 9, 14, 17, 17, 24, 33, 36, 41, and 49.

20. What is the value of ?

21. What is the number of factors of 120?

22. Find the slope of a line perpendicular to y = -5.

23. Simplify the following expression: Leave only positive exponents in your answer.

24. How many seconds are in 5 hours 20 minutes?

25. Find the sum of the first 50 consecutive counting numbers.