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

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

**9879** 3. Compute 111 × 89.

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

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

**4** 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*

**(10, -184)** 7. What is the coordinate of intersection of the lines y = 20x - 384 and y = 15x - 334

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

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

**540** 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?

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

**31 / 16** 12. Evaluate .

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

**297 / 21** 14. Express as a common fraction.

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

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

**30.21** 17. Compute 5.3 × 5.7.

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

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

**126** 20. What is the value of ?

**16** 21. What is the number of factors of 120?

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

**(3a7b7 / 2** 23. Simplify the following expression: Leave only positive exponents in your answer.

**8400** 24. How many seconds are in 5 hours 20 minutes?

**1275** 25. Find the sum of the first 50 consecutive counting numbers.