NAME _____

Directions: You have 15 minutes to do 50 problems. Write answers to the left of the problem.

- _____ 1. Compute 155+178.
- _____ 2. Compute 155–178.
- _____ 3. Compute 14×14.
 - _____ 4. Compute $253 \div 23$.
- 5. Compute 2^6 .
- _____ 6. Compute $(19 7 \times 3)^4$.
- _____ 7. Compute $10 + 3 \times 6 4^2 + 12$.
- 8. Find the value of x if $\frac{3}{4} = \frac{18}{x}$.
 - _____ 9. Find the value of x if $\frac{6}{5} = \frac{x}{20}$.
- 10. Find the value(s) of x for which $x^2 = 36$.
 - _____11. Find the perimeter of a square whose area is 81 square units.
- _____12. The area of a triangle is 21 square units. If it has a base of 3 units, find its height.
- 13. Evaluate |x-5| when x=2.
 - _____ 14. Evaluate |3x 24 + x| where x = 4.
 - 15. Find the probability of rolling an even number on a single die.
- _____16. Find the probability of getting two heads when flipping two fair coins.
 - _____ 17. Find *b* if a = 4, c = 9, and $a \bullet b + c = 25$.
- _____ 18. Compute $\frac{6^2}{3} + 5$.
 - _____ 19. Farmer Ted has 50 chickens and 50 cows in his barn. Assuming no malformations, how many total legs does he have in his barn? (Do not count Farmer Ted's legs!)
- 20. A rectangular fence has length 6 and width 9. Find its perimeter.
- ______21. A rectangular fence has length 7 and width 13. Find its area.
- ______22. The answer is half the correct answer to #35.
- 23. A magic number machine takes whatever number you put in, adds 4, and then multiples the result by 2. If your final number is 50, what number did you put in?
- 24. If $5! = 5 \times 4 \times 3 \times 2 \times 1$ and $4! = 4 \times 3 \times 2 \times 1$, find 3!.
- ______25. List the prime numbers less than 10.



- _____ 26. Compute 55 + 67 + 40.
 - _____ 27. Compute 55 + 67 40.
- _____28. Compute 9×8.
- _____ 29. Compute $\frac{(15-8)^2}{7}$.
- _____ 30. Compute |8-13|.
- _____31. Compute 19×3.
 - _____ 32. Compute $(10+2\times 3-5)^2$.
- _____ 33. Find the square of the answer in #13.
- ______ 34. A man is running 6 mph. How long does it take him to run 15 miles?
- ______ 35. The average of x and 90 is 88. Find the value of x.
- ______36. Find the sum of the prime numbers less than 10.
- ______ 37. The answer is half the answer to #19.
 - _____ 38. A right triangle has legs of length 4 and 8. Find its area.
- _____ 39. Compute $\frac{(9+9)}{9}$.
 - 40. Compute $(9+9+9) \times 9 \times \left(\frac{9}{9}+9-10\right)$.
- 41. Find the average (arithmetic mean) of 1, 2, 3, 4, 5, 6, 7.
 - 42. Find the range of 9, 5, 7, 11, 4, 7, 10, 6, 14, 5, 8
- _____ 43. Find the mode of the list in #42.
- $\underline{\qquad} 44. \text{ Compute } \frac{8 \times 7 \times 6}{3 \times 2 \times 1}.$
- 45. Find the sum of the answers from #2, #7, #30, and #40.
- 46. Divide the sum of your answers from #8 and #9 by the answer to #7.
- 47. Find the square root of the answer to #32 and multiply it by 9.
- ______ 48. Multiple the answers to #4, #13, #30, and #40.
- _____ 49. Add the answers to #45, #46, #47, #48.
- _____ 50. The answer is *A*.

GRADERS ONLY: Number of correct answers on this side: