

**Magic Math Contest**

1. \_\_\_\_\_ What us the value when 2 is divided by  $\frac{1}{2}$ ?

2. \_\_\_\_\_ What is  $125 \times (8 \times 17)$ ?

3. \_\_\_\_\_ What is the remainder when 1234586793860274953 is divided by 5?

4. \_\_\_\_\_ What is the remainder when  $(81) \times (217)$  is divided by 9?

5. \_\_\_\_\_ Find the quotient  $400 + 20 \div 2$ .

6. \_\_\_\_\_ Find the value of  $13 + 15 - (-15) - 15 + (-13)$ .

7. \_\_\_\_\_ Evaluate the sum  $5 + 91 + 92 + 93 + 94 + 95 + 96 + 97 + 98 + 99$ .

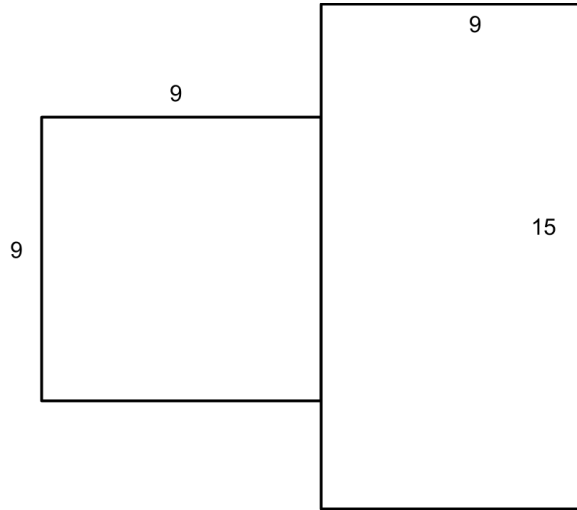
8. \_\_\_\_\_ Simplify  $\frac{3}{14} + \frac{5}{7} + \frac{2}{28}$ ?



9. \_\_\_\_\_ What is the value of  $2^6 - 6^2$ ?

10. \_\_\_\_\_ What is the value of  $\sqrt{49} \times \sqrt{121}$  ?

11. \_\_\_\_\_ What is  $2x^2 + 5x - 10$  if  $x = 10$ ?



12. \_\_\_\_\_ Jon draws a square and a rectangle. One of the square's side is on the rectangle as shown. What is the perimeter plus the area of this figure? (Note: the figure is not to scale)

13. \_\_\_\_\_ I have a sum  $1 + 3 + 5 + 7 + \dots + 49$ . What is the value of this sum?

14. \_\_\_\_\_ What is the greatest common divisor of 26 and 65? (The greatest common divisor of 2 numbers is the biggest number that evenly divides both of them).

15. \_\_\_\_\_ The ratio of cats to dogs at the vet was 2 : 3. If there were 25 total pets, how many of the pets were dogs?

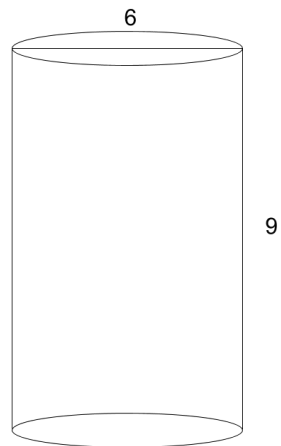
16. \_\_\_\_\_ What is the Least Common Multiple of 26 and 65? (The Least Common Multiple of 2 numbers is the smallest number that both numbers divide evenly).



17. \_\_\_\_\_ What is the value of  $\frac{1}{2} \times 4 \times \frac{1}{8} \times 16 \times \frac{1}{32} \times 64$

18. \_\_\_\_\_ Compute 10% of 40% of 1500.

19. \_\_\_\_\_ In a movie theater there are 3 seats next to each other and one separate seat. Four friends walk in and have to choose how they should sit. How many ways are there to choose who sits in which seat?



20. \_\_\_\_\_ Cindy has a cylinder that has height 9 and a diameter of 6. What is its surface area. Express your answer without  $\pi$ , so if the answer is  $4\pi$  then just write 4 as the answer.