

High School Algebra 1 Placement Test

E=mc² Academy

Show all work and do not use a calculator.

1. Find the sum: $1489 + 854 + 402 + 793 =$ _____

2. Find the difference: $24,054 - 18,793 =$ _____

3. Find the product: $936 \times 289 =$ _____

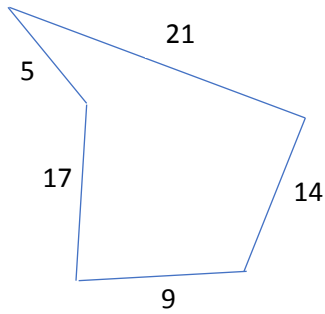
4. Solve for y: $38y = 532$ $y =$ _____

5. Is the number 41 a prime, composite or neither: _____

6. Multiply: $\frac{22}{15} \cdot \frac{5}{33} =$ _____

7. Solve: $\frac{24}{5} \div \frac{28}{15} =$ _____

8.



Find the perimeter: _____

9. What is the LCM of 14, 40 and 50? LCM is _____

10. Solve for x: $\frac{x}{100} = \frac{27}{64}$ **x** = _____

11. Compute and simplify: $-45 \div 5 =$ _____

12. Simplify: $2^3 - 10[4 - 3(-2 + 18)] =$ _____

13. True or False: $-5 \geq 5$ **Answer:** _____

14. Solve: $8 - y = 16$ $y =$ _____

15. Solve for x: $-2 + 7x + 6 = 5x + 4 + 2x$ $x =$ _____

16. Solve for x: $4(3x - 1) + 11 = 2(6x + 5) - 8$ $x =$ _____

It is okay if you can not solve all of these problems. I am simply getting a feel for your math skills. Do your very best and show all work.