

ALL ANSWERS MUST BE EXACT AND SIMPLIFIED TO LOWEST TERMS!

1. Solve: $-8 + 2 + (-13) + 5 \times 4 - (-7)$
2. What percent of 400 is 80?
3. Evaluate: $\frac{2}{5}x^2$ if $x = 5$
4. Solve the inequality: $-6d - 3 \leq -6d - 15$
5. What is the slope of a line perpendicular to the line whose equation is $3x - 4y = 9$?
6. Christian needs an average of 94 to get an A in his class. What does he need to make on the next test to score an A if his first three test scores are 95, 92, 90?
7. Simplify (give an exact answer): $\sqrt{45}$
8. Evaluate: $(4 + m^4) - m$ for $m = -4$
9. Find how far apart Albany and Rochester are in Kilometers if their corresponding points on a map are 15 centimeters apart. Use 1 centimeter = 30 Kilometers
10. Simplify: $\frac{m^2 p^3 m^3 p^5 p}{m^4 p^2}$
11. Find the slope of a line that passes through the points $(2, -3)$ and $(-5, -5)$

12. The ratio of girls to boys was 5 to 2. If 2100 were girls, how many were there in all?
13. If $5x - 8 = 17$, then what is the value of $2x + 16$?
14. What is the GCF of $14x^4y^3$ and $49y^2$?
15. If Patrick rolls two standard six-sided dice, what is the probability he obtains a sum of 7?
16. Simplify $\frac{8a^{24}}{4a^3}$
17. Solve: $(12 + 4 - 12 \div 4 \times 4 + 6 - 7[56 \div (7 \times 8)])^2$
18. Solve the inequality: $9(\frac{x}{3} - 4) > 2x + 13$
19. Charles earns 8% commission on all his sales. If he sells a total of \$734.25, what commission does he receive?
20. $|3 - 6| - |-3 \cdot 4| =$
21. Simplify: $[3(p \div 3) - 2] - [5(p - 3) + 5]$
22. Solve: $x - 4 = 5(x - 16)$
23. What is 83,500 in scientific notation?
The ?
24. Solve. Three times the sum of a number and 3 is 3 less than a number.
25. $6(x - 1.9) = 9$