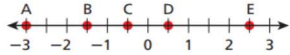


Please number your work and show all steps for your summer assignment. You should not use a calculator.

Western High School Algebra I & Algebra I Honors Summer Assignment

Add, subtract, multiply, or divide. 1. $623 - 432$ 2. 8×23 3. $882 \div 14$ 4. $178 + 842$	Simplify each expression. 25. $5(12 + g)$ 26. $(r - 6)9$
Add or subtract. 5. $43.21 + 16.8$ 6. $16.3 - 9.11$	Find each unit rate. 27. \$30 for 8 students 28. 96 packages in 6 days
Multiply. 7. 2.3×0.6 8. 6.4×3.2	29. Mario has saved \$165. At the end of each week he saves an additional \$15. Write an equation representing the total amount S he has saved at the end of any given week w .
Divide. 9. $25.6 \div 8$ 10. $0.84 \div 0.6$	Identify the point on the number line that matches each number. 30. -0.5 31. 2.5 32. -3 
Multiply or divide. Give your answer in simplest form. 11. $\frac{2}{9} \times \frac{3}{4}$ 12. $\frac{5}{9} \div 5$	Compare. Write $<$, $>$, or $=$. 33. $\frac{5}{12}$ <input type="text"/> $\frac{3}{4}$ 34. $\frac{4}{20}$ <input type="text"/> 20%
Add or subtract. Give your answer in simplest form. 13. $\frac{3}{4} + \frac{5}{12}$ 14. $1\frac{2}{9} - \frac{4}{9}$	Evaluate each expression for the given value of the variable. 35. $5w - 16$ for $w = 6$ 36. $-8 - \frac{2}{3}h$ for $h = 6$
Add or subtract. 15. $-54 + 35$ 16. $-18 - (-30)$	Solve each equation. 37. $5g = 135$ 38. $x - 16 = 8$
Multiply or divide. 17. $15(-4)$ 18. $-30 \div (-6)$	Simply each expression by combining like terms. 39. $3b - 32 + 4b$ 40. $-3f + 4t - 3t + 6f$
Evaluate each expression. 21. $12 + 3 \div 3$ 22. $3 + 2 \times 4^2$ 23. $4 + 6 \times 10 - 2$ 24. $25 \times (4 + 5)$	Solve each equation. 41. $4x + 16 = 40$ 42. $\frac{x}{5} - 9 = 1$

Please number your work and show all steps for your summer assignment. You should not use a calculator.

Solve each proportion.

43. $\frac{3}{4} = \frac{z}{12}$

44. $\frac{10}{30} = \frac{6}{t}$

45. Generate ordered pairs for the function
for $x = -2, -1, 0, 1, 2$.

$y = 5x + 3$

x	y
-2	<input type="text"/>
-1	<input type="text"/>
0	<input type="text"/>
1	<input type="text"/>
2	<input type="text"/>

All Algebra I students must know the facts below.
Please complete the table and memorize.

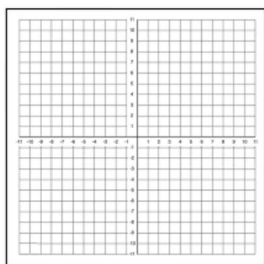
$1^2 = 1 \times 1$ Answer: 1	$2^2 = 2 \times 2$ Answer: 4	$3^2 =$ Answer:	$4^2 =$ Answer:
$5^2 =$ Answer:	$6^2 =$ Answer:	$7^2 =$ Answer:	$8^2 =$ Answer:
$9^2 =$ Answer:	$10^2 =$ Answer:	$11^2 =$ Answer:	$12^2 =$ Answer:
$13^2 =$ Answer:	$14^2 =$ Answer:	$15^2 =$ Answer:	$16^2 =$ Answer:
$17^2 =$ Answer:	$18^2 =$ Answer:	$19^2 =$ Answer:	$20^2 =$ Answer:

**Graph each point on the same
coordinate grid.**

46. $A(-3, -4)$

47. $B(2, 0)$

48. Graph the function $y = 2x + 1$.



Algebra I Honors students -

51. $(2x^2y^4)^2$

52. $(2pq^2r^3)(5q^3r^4s)$

53. Which equations are equivalent?

I. $2x - 3 = 5x + 7$

II. $2x - 2 = 5x - 12$

III. $2x + 3 = 5x - 7$

IV. $4x - 6 = 10x + 14$

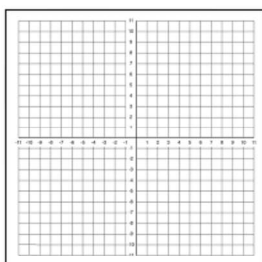
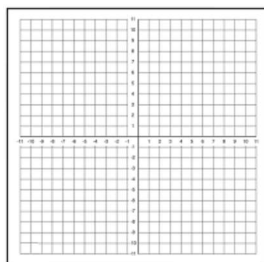
A. Equations I & III B. Equations III & IV

B. Equations I & IV D. Equations II & III

Solve and graph each inequality.

49. $b - 8 \geq -11$

50. $-\frac{3}{4}x > 3$



54.

A company wishes to produce and sell calculators. The company invests \$500,000 in starting the business and calculates each calculator will cost a further \$20.00 to make. They decide to sell each calculator at a price of \$25.00. What is the least number of calculators that need to be sold in order to make a profit?

A. 11,111

B. 100,000

C. 25,000

D. 20,000

55. George cut $\frac{2}{3}$ of the pie and put that giant piece on his plate. Then he ate $\frac{1}{4}$ of that piece. What fraction of the original pie did George eat?