

Name: _____

GSE ALGEBRA I Spring Packet (Rising 9th Graders)

Due Friday January 6th

Numbers and Operations:

Round the following numbers to the thousandth place.

1. 16,579.1256 _____

2. 34.876 _____

3. 1,456.1289123 _____

4. -235.4575 _____

Round the following to the tenth place.

5. 45.235 _____

6. 100.033 _____

7. 12,457.350 _____

8. 5.159 _____

Round to the hundredth place.

9. -436.45 _____

10. 1,289.444 _____

Simplify the following using Order of Operations:

11. $(-2) - (-4) \div (-2) + 6 \cdot 0 =$ _____

12. $(-3) \div (-1) + 5 - 12 =$ _____

13. $-2(10+3) - (2-8) \div 3 =$ _____

14. $7(2-5) + (7-1) - 14 \div 2 =$ _____

15. $(10 + 20 - 2) - (11 + 3) =$ _____

16. $3 \times 5 \times 9 + 5 - 4 =$ _____

Algebra:

Evaluate the expression for the value of x specified in each problem.

17. Let $x = 3$ Evaluate: $6x - 7$

18. Let $x = 5$ Evaluate: $3x - 12$

19. Let $x = 2$ Evaluate: $3(x - 3) + 5x$

20. Let $x = 1$ Evaluate: $4(x + 2) - 2(x - 3)$

Solve for x .

21. $6x - 7 = 47$

22. $3x - 12 = -27$

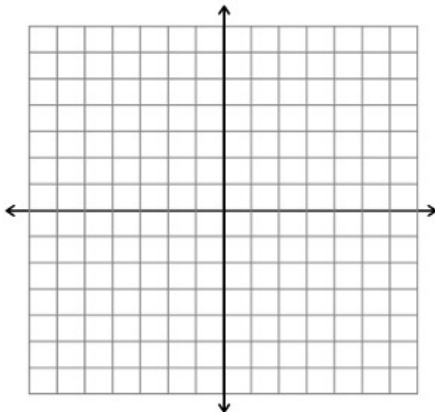
23. $3(x - 3) = 5x + 21$

24. $4(x + 2) - 2(x - 3) = 20$

25. $6x + 3 = 45$

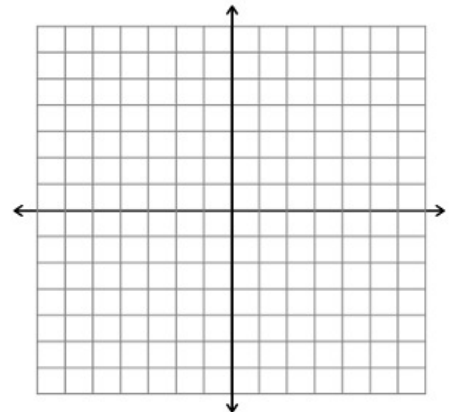
Graph Each Equation

26. $y = 2x + 5$
2

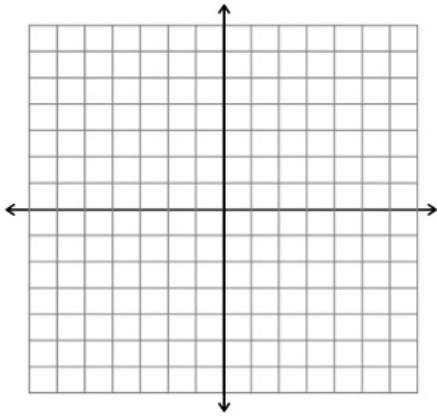


27. y

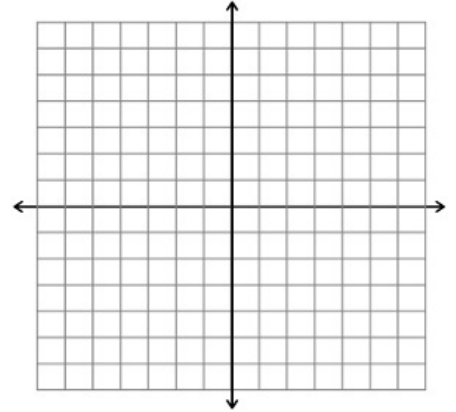
$= -3x +$



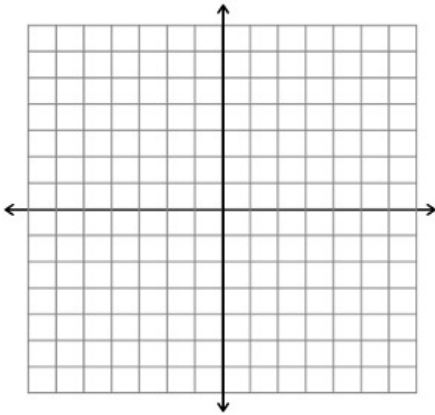
28. $y = 12x - 3$
 $13x + 5$



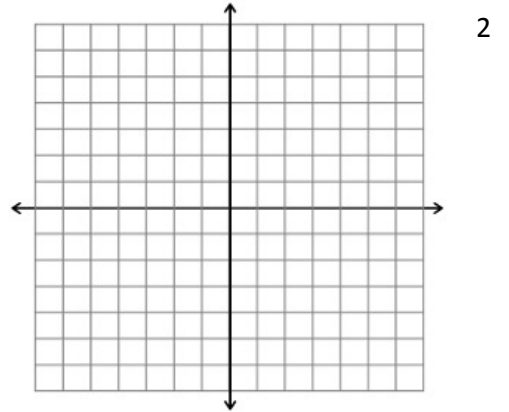
29. $y = -$



30. $y = 4$



31. $x = -$



Solve for each proportion.

32. $x58=9794$

33. $6050=w40$

34. $73y= 116$

35. $6696=35b$

36. $2550=k5$

37. $75100=10r$

Simplify each Exponential Expression

38. $2^3 + 3^2 =$ _____

39. $4^2 - 3^3 + 5^2 =$ _____

40. $6^2 - 4^2 =$ _____

41. $3^3 - 3^2 + 4^3 =$ _____

42. $2^3 \times 3^2 =$ _____

43. $3^2 + 2^3 \times 4^2 =$ _____

Statistics:

Find the mean, median, mode, and range for each problem.

44. 3, 3, 4, 8, 6, 9, 6, 9, 6

Mean ____ Median ____ Mode _____ Range ____

47. 3, 2, 3, 4, 9, 3, 4, 4, 4

Mean ____ Median ____ Mode _____ Range ____

45. 9, 7, 1, 4, 7, 8

Mean ____ Median ____ Mode _____ Range ____

48. 3, 2, 2, 8, 5

Mean ____ Median ____ Mode _____ Range ____

46. 6, 7, 4, 4, 4, 5

Mean ____ Median ____ Mode _____ Range ____

49. 5, 3, 9, 6, 9, 2, 6, 9, 5

Mean ____ Median ____ Mode _____ Range ____

46. 3, 7, 5, 2, 8

Mean ____ Median ____ Mode _____ Range ____

50) 5, 6, 3, 6, 9, 5, 6, 7, 7

Mean ____ Median ____ Mode _____ Range ____