



Chaffey High School Summer Math Assignment

Incoming Integrated Math 1



Instructions: Please have the following worksheet completed and ready to be handed in on the first day of class in the fall. Make sure you show work where appropriate. If you need help, you can go to this link: (www.ScreencastsForAll.com/chaffey.htm) to watch a Chaffey math teacher explain each question. It is expected that you have a good understanding of this material coming into these courses. Have a great summer and we look forward to seeing you in the fall!

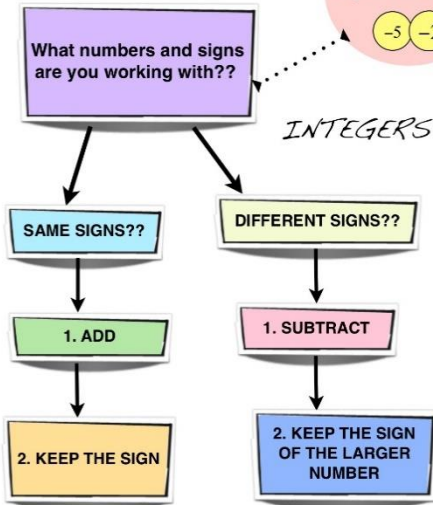
TOPIC #1 – Integer Operations

ADDING &

SUBTRACTING

NOTE: It helps when you circle the sign and the number.

-5 -2



Simplify:

1. $5 + (-3)$

2. $-5 + 3$

3. $-5 - 3$

4. $(-6) + (-5)$

5. $-13 + 23 + (-2)$

6. $18 - (-13)$

7. $12 - (-22) + (-2) - 32$

8. $-3 + (-7) + 5 + (-4) + (-6)$

9. $102 - (-8) + 20 - 60 - 10 + (-20) + 30 - (-30)$

TOPIC #2 – Order of Operations

Simplify:

10. $4 + 6 \cdot 2 - 5$

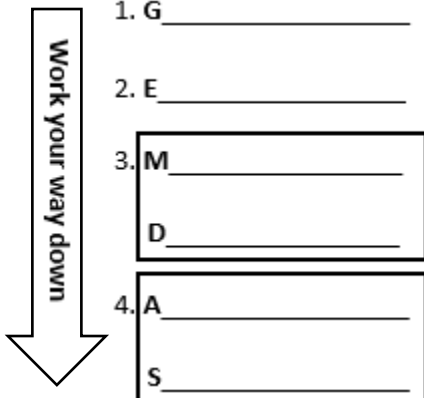
11. $25 - 10 \div 5$

12. $-7 + 4 \cdot 2^2$

13. $3 + (5 - 2) + 6^2$

14. $\frac{8+4^2}{7-5 \cdot 3}$

15. $(3 - 5)^2 + 16 \div 2 \cdot 4$





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Order of Operations (Continued)

Simplify:

16. $4\{12(22 - 19) - 3 \cdot 6\}$

17. $3[2 + 4(5 + 2^3)]$

18. $\frac{4^2 - 20 \div 5}{1 - 5 + 7}$

Substitute and simplify:

19. $8x^2 + x - 9$ for $x = 2$

20. $-w^2 + 5$ for $w = -2$

21. $2y^2 - x - 1$ for $x = 2, y = 4$

22. $14x - (2y + z)$ for $x = 3, y = 4, z = 5$

23. $\frac{9h-8}{1+4} + k^2$ for $h = 2$ and $k = 11$

TOPIC #3 – Combine Like Terms (C.L.T.)

Simplify the expression.

24. $5a + 2b + 3a$

25. $4y - x + 2y + 3x$

26. $6x^2 + 5x - 8x + 2$

27. $-6x - 7 + x^2 + 5x - 2x^2 + 8$

28. $6x - 7 + x + 5 - 2x + 8$



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TOPIC #4 – Solving Linear Equations

GOAL – to isolate x on one side of the equal sign.

Solve the equation.

29. $3x - 2 = 13$

30. $9 = 2r + 1$

STEPS: D: Distribute

C: Combine Like Terms

M: Move the smallest variable first

A: Add/Subtract Inverse

M: Multiply/Divide Inverse

31. $5 - x = -11$

32. $\frac{1}{2}z + 3 = 12$

33. $7x + 3 - 5x = 9$

34. $4x + 10 = 6x - 2$

35. $3(y - 2) = 10$

36. $4k + 3(k - 6) = 2k$

37. $7x + 6 = 4(x - 9)$

38. $\frac{x}{7} - 12 = -19$

39. $23m + 5 - 7m = 4m - 19$

40. $8w + 12 - 6w = 4(w + 3) - 2w$



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TOPIC #5 – Graphing Linear Equations

Find the slope given the following information:

41. $(3, 7)$ and $(-4, 10)$

42. $(1, -5)$ and $(-1, 3)$

43. $y = 9x - 2$

44.

| x | y |
|----|----|
| -2 | 3 |
| 5 | 17 |

Graph the line.

44. $y = \frac{1}{3}x - 2$

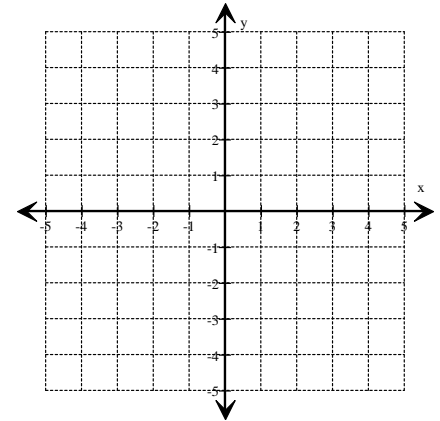
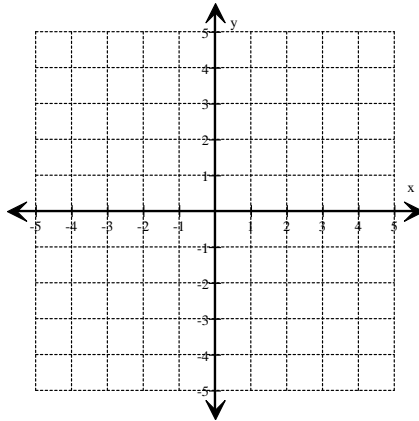
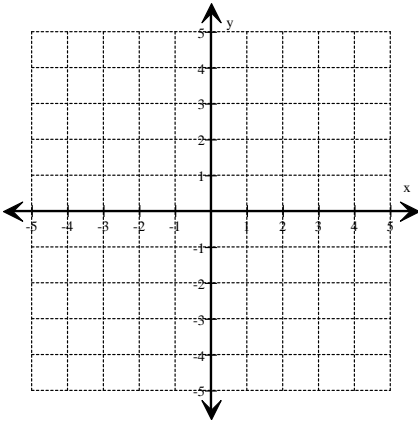
45. $y = -2x + 3$

46. $y = -\frac{2}{3}x$

Slope is _____ y-int is _____

Slope is _____ y-int is _____

Slope is _____ y-int is _____



47. $y = 3$

48. $-3x + y = -1$

49. $4x + 2y = 10$

Slope is _____ y-int is _____

Slope is _____ y-int is _____

Slope is _____ y-int is _____

