### Weeknd Warrior 02

Answer every question, performing calculations with no pencil or paper as much as possible. Aim to answer each question in 10 seconds or less. Practice the entire package several times.

State the Additive Inverse of Each value or term.

- 1.  $\frac{2}{3}$
- 2. -6

3. 
$$-\frac{4}{3}$$

- 4. -0.47
- 5. 9n

State the multiplicative inverse (reciprocal) of each value or term

6. 37

7. -128.  $\frac{5}{9}$ 9.  $-\frac{8}{5}$ 

10. 9*n*, where  $n \neq 0$ 

# Convert the improper fractions to mixed numbers, fractions reduced.

 $11. \frac{8}{5}$   $12. \frac{12}{7}$   $13. \frac{20}{6}$   $14. \frac{30}{12}$   $15. \frac{28}{6}$ 

## Translate into a math statement.

- 16. Three less than eight times a number
- 17. Five more than the square of a number
- 18. twelve less than a number
- 19. The quotient of a number and eight
- 20. Nine less than the reciprocal of a number **Add**.
- 21. -8 + 5
- 22. 64 + (-4)
- 23. 4 + (-7)
- 24. 0 + (-6)
- 25. -8 + 11
  - Subtract
- 26. 0 6
- 27. 7 14
- 28. 4 (-3)
- 29. -9 6
- 30. -4 (-10)

Simplify via the Order of Operations

- 31. 6 3(2)32. 9 + 4(1)
- 33.  $6 \frac{1}{3}(12)$
- 34.  $4 \div 4(3)$
- 35.  $8 \div 4(3) + 1$

Add like terms

- 36. b + 7b
- 37. 5y + (-9y)
- 38. -6a + (-7a)
- 39. 7c 11c
- 40. -15x 2x
- 41. 3x + 2y x

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## **Multiply via the Distributive Property**

42. 
$$8(4 - x)$$
  
43.  $3(x + 8)$ 

- 44. -2(n + 11)
- 45. -5(-3-b)
- 46.  $\frac{1}{6}(12x 18)$

47. 
$$\frac{2}{5}(10x-5)$$

Identify the inverse to isolate the unknown, then solve for the unknown. For example:

- b + 7 = 13; "subtract 7(or add -7); b = 6"
- 48. n + 4 = 949. x - 7 = 1350. a + 6 = -951. g - 8 = -252. r + 6 = -1353.  $f - \frac{1}{2} = \frac{3}{2}$

Identify the inverse to isolate the unknown, then solve for the unknown. Keep fractions improper where appropriate. For example:

5n = 23; "divide by 5 (or multiply by  $\frac{1}{5}$ ),

$$n = \frac{23}{5}$$

54. 
$$5b = 17$$
  
55.  $6n = -20$ 

56. -12g = 2957.  $\frac{x}{2} - 4$ 

$$57. \frac{n}{3} = 4$$
  
 $58. -\frac{n}{6} = 9$ 

59. 5x + 4 = 1060. 3x - 5 = 661. 7 + 2x = 862.  $\frac{x}{2} + 3 = -5$ 63.  $6 - \frac{x}{5} = -4$ 

Solve for the unknown.

64. 
$$-9 - \frac{x}{4} = 0$$

Say if the last line of a linear equation solution is either unique, no real solution, or all real numbers.

- 65. x + 1 = x + 1
- 66. a = -3
- 67. x = 0
- 68. 27 = 31
- 69. -3x = -3x + 1
  - Figure it out!
- 70.  $17^2 4$
- 71.  $4^2 4(2)(1)$
- 72.  $\frac{15^2}{100}$ ; write as a decimal

73. 
$$\frac{5}{4} \div 4 \cdot 8$$

74. 
$$(\frac{1}{4} \cdot \frac{1}{4})^2$$