QUIZIZZ

NAME : _____

CLASS : _____

DATE : _____

## L 2.8 Literal Equations and Dimensional Analysis

10 Questions

1. The area of a rectangle is A = bh. Solve the formula for h.

☐ a) h = A - b ☐ b) h = b/A

☐ c) h = Ab ☐ d) h = A/b

2. Solve the equation for m.
7m - 4n = 8

☐ a) m = (8 + 4n)/7 ☐ b) m = 8/7 + 4n

☐ c) m = (8 - 4n)/7

3. Which expression represents the value of x in the equation:
dx + e = f

☐ a) x = (f + e)/d ☐ b) x = (f - e)/d

☐ c) x = d/(e - f) ☐ d) x = d/(e + f)

4. $\frac{b-4z}{7} = a$, for $b$

☐ a) b = 7a - 4z ☐ b) b = 7(a +4z)

☐ c) b = 7a/-4 + z ☐ d) b = 7a + 4z

5. How many kilograms of calcium are there in 173 pounds of calcium? (1 pound = 454 grams; 1 kg = 1000 g)

☐ a) 1.10 kg ☐ b) 78.5 kg

☐ c) 110 kg ☐ d) 78500 kg

Help

6. $p = \frac{w}{a}$ Solve for a.

- ☐ a) a = pw
- ☐ b) a = p/w
- ☐ c) a = w/p
- ☐ d) a = w + p

7. Solve for y:
$8x + 4y = 12$

- ☐ a) y = -x + 3
- ☐ b) y = 2x - 3
- ☐ c) y = -2x + 3
- ☐ d) y = -2x - 3

8. 64 miles/hour ≈ _____feet/second

- ☐ a) 337,902 feet / second
- ☐ b) 93.86 feet / second
- ☐ c) 5632 feet / second

9. 110 miles/hour = _____ miles/day

- ☐ a) 4.58 miles/day
- ☐ b) 6600 miles/day
- ☐ c) 2640 miles/day

10. $y = \frac{x - v}{b}$ Solve for x:

- ☐ a) x = yb - v
- ☐ b) x = by - v
- ☐ c) x = by + v