

Literal Equations – Worksheet #1



SHOW ALL WORK!!



Regular Equations

1a) $x - 7 = 8$

2a) $4x = -12$

3a) $2x - 5 = 11$

4a) $\frac{1}{2}(4x) = -20$

5a) $\frac{x}{-8} = 11$

Literal Equations

1b) Solve for x: $x - b = a$

2b) Solve for k: $-3k = m$

3b) Solve for b: $2b - 9 = d$

4b) Solve for g: $aeg = 10$

5b) Solve for y: $\frac{y}{3} = h$

Literal Equations – Worksheet #1

6a) $14 = 2x + 26$

6b) Solve for v: $3d = 7v + 5$

7a) $-30 = 4 - 8x$

7b) Solve for h: $7a = 10 - 2h$

8a) $3(x - 4) = 12$

8b) Solve for p: $5(4x + p) = w$

Which of the following is equivalent to:

$$7a - 8b = 10x$$

A. $a = \frac{18xb}{7}$

B. $a = \frac{10x+8b}{7}$

C. $a = \frac{10x-8b}{7}$

Which of the following is equivalent to:

$$4ab + k = 13$$

A. $k = \frac{13}{4ab}$

B. $k = \frac{13-ab}{4}$

C. $k = 13 - 4ab$

Literal Equations – Worksheet #2



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Regular Equations

1a) $43 - 2x = 11$

2a) $23 + 4x - 34 = -11$

3a) $3(2x - 7) = 6$

Literal Equations

1b) Solve for x: $3y + 2x = -1$

2b) Solve for k: $3 - 3k + 7k = 5b$

3b) Solve for b: $\frac{1}{2}(4a + 10b) = c$

Formulas can be manipulated through the process of solving literal equations.

4) Solve for h: $A = bh$ (area of a parallelogram)

Literal Equations – Worksheet #2

5) Solve for b: $A = \frac{1}{2}bh$ (Area of a triangle)

6) Solve for r: $C = 2\pi r$ (Circumference of a circle)

7) Solve for w: $P = 2L + 2W$ (Perimeter of a rectangle)

8) Solve for t: $D = rt$ (Linear motion)

9) Solve for C: $F = \frac{9}{5}C + 32$ (Temperature conversions)

Literal Equations – Worksheet #3



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Formulas can be manipulated through the process of solving literal equations.

1) Solve for b: $A = bh$ (Area of a parallelogram)

2) Solve for h: $A = \frac{1}{2}bh$ (Area of a triangle)

3) Solve for d: $C = \pi d$ (Circumference of a circle)

4) Solve for L: $P = 2L + 2W$ (Perimeter of a rectangle)

5) Solve for t: $D = rt$ (Linear motion)

Literal Equations – Worksheet #3

Solve each of the following equations for the variable “y”.

6) $2y = 4x + 10$

9) $-5y + 15 = 3x$

7) $2x + 4y = -22$

10) $18 = 3y - 12x$

8) $8y - 4x = 2$

11) $19 = 7x + y$