

## REVIEW OF EQUATIONS #1

EXAMPLES:

$$\begin{array}{r} n + 7 = 9 \\ -7 = -7 \\ \hline n = 2 \end{array}$$

$$\begin{array}{r} a - 4 = -8 \\ +4 = +4 \\ \hline a = -4 \end{array}$$

$$\begin{array}{r} -0.8 = 0.3 + t \\ -0.3 = -0.3 \\ \hline -1.1 = t \end{array}$$

$$\begin{array}{r} -6 = 7 + w \\ -7 = -7 \\ \hline -13 = w \end{array}$$

$$\begin{array}{r} -6 = x - 7 \\ +7 = +7 \\ \hline 1 = x \end{array}$$

Solve each of these. Show your work in the spaces provided.

1. $a - 4 = 9$	9. $25 = x + 11$	17. $-8.6 = c - 0.2$
2. $a + 5 = -17$	10. $-18 = a - 3$	18. $n + 3.5 = 4.5$
3. $c - 8 = 12$	11. $-26 = x - 4$	19. $19 = -7 + y$
4. $x - 1 = 7$	12. $16 = r + 2$	20. $4 + x = -50$
5. $b + 4 = 13$	13. $y - 13 = -14$	21. $-4 = x - 4$
6. $d + 1 = 12$	14. $m + 5 = 15$	22. $w - 5 = 0$
7. $x - \frac{1}{4} = 5\frac{3}{4}$	15. $y + 5 = 8\frac{1}{4}$	23. $n - 7 = 3\frac{1}{3}$
8. $b - 7 = -7$	16. $12 = p + 1.8$	24. $x + 8 = 8$

## EQUATION PRACTICE #2

EXAMPLES:

$$\begin{aligned}\frac{x}{4} &= 8 \\ 4 \bullet \frac{x}{4} &= 4 \bullet 8 \\ x &= 32\end{aligned}$$

$$\begin{aligned}\frac{1}{3}x &= 15 \\ 3 \bullet \frac{1}{3}x &= 3 \bullet 15 \\ x &= 45\end{aligned}$$

$$\begin{aligned}\frac{3x}{4} &= 12 \\ \frac{4}{3} \bullet \frac{3x}{4} &= \frac{4}{3} \bullet \frac{12}{1} \\ x &= 16\end{aligned}$$

Solve each of these. Show your work in the spaces provided.

1. $\frac{x}{5} = 10$	2. $\frac{w}{6} = 13$	3. $\frac{t}{8} = 16$
4. $\frac{c}{8} = \frac{1}{9}$	5. $\frac{a}{6} = \frac{4}{5}$	6. $\frac{x}{5} = \frac{6}{25}$
7. $\frac{1}{3}c = 6$	8. $\frac{1}{6}x = 2$	9. $\frac{1}{9}d = 5$
10. $\frac{1}{4}b = 8$	11. $\frac{1}{7}w = 20$	12. $\frac{1}{7}w = 13$
13. $\frac{2x}{3} = 6$	14. $\frac{4x}{5} = 7$	15. $\frac{8x}{9} = 16$

**EQUATION PRACTICE #3**

NAME \_\_\_\_\_

SOLVE EACH OF THE FOLLOWING EQUATIONS.

1. $x - 5 = -9$	2. $c + 7 = -2$	3. $a + 4 = 7$
4. $c - \frac{1}{4} = -\frac{1}{8}$	5. $a + \frac{1}{9} = -\frac{2}{3}$	6. $\frac{4}{5} = b - \frac{7}{8}$
7. $5 = x - 12$	8. $-4 = -13 + d$	9. $22 = k + 12$
10. $\frac{1}{4} = h - \frac{2}{7}$	11. $\frac{6}{7} = h + \frac{3}{4}$	12. $-\frac{8}{9} = y - \frac{1}{2}$
13. $\frac{1}{2} + p = \frac{7}{8}$	14. $\frac{7}{9} = t - \frac{3}{5}$	15. $4 = c - \frac{5}{7}$
16. $x + 6.7 = 8$	17. $5.8 + d = -2.4$	18. $7.9 = x - 3.1$
19. $\frac{2}{5}x = 6$	20. $\frac{3x}{5} = 15$	21. $14 = \frac{2c}{7}$
22. $18 = x - \frac{1}{3}$	23. $k - 7.9 = -6.3$	24. $\frac{6x}{7} = \frac{1}{2}$

**EQUATION PRACTICE #4**

NAME \_\_\_\_\_

EXAMPLES:

$\begin{array}{r} 3x - 5 = -2 \\ + 5 = + 5 \\ \hline 3x = 3 \\ \frac{3x}{3} = \frac{3}{3} \\ x = 1 \end{array}$	$\begin{array}{r} \frac{2x}{3} + 7 = 9 \\ - 7 = - 7 \\ \hline \frac{2x}{3} = 2 \\ \frac{3}{2} \cdot \frac{2x}{3} = \frac{3}{2} \cdot 2 \\ x = 3 \end{array}$	$\begin{array}{r} - 5.4 = - 6.7 - x \\ + 6.7 = + 6.7 \\ \hline 1.3 = -x \\ \frac{1.3}{-1} = \frac{-x}{-1} \\ - 1.3 = x \end{array}$
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SOLVE EACH OF THESE:

1. $4x + 4 = -4$	2. $0.08 = 7x - 0.13$	3. $5 - 2x = 15$
4. $\frac{5x}{7} + 10 = 25$	5. $4 = \frac{6a}{7} - 8$	6. $\frac{4x}{9} + 4 = 3$
7. $-6x + 0.2 = 0.8$	8. $-3x - 4 = -9$	9. $-25 = 100 - 50x$
10. $\frac{x}{7} = 14$	11. $\frac{3}{25} = x - \frac{2}{25}$	12. $\frac{4}{21} = -17 - 5x$
13. $12 - 6c = 0$	14. $13 = 5t + 13$	15. $-14 = 14 - 8x$

**EQUATION PRACTICE #5**

NAME \_\_\_\_\_

EXAMPLES:

$\begin{aligned} 3x + 5x &= -16 \\ 8x &= -16 \\ \frac{8x}{8} &= \frac{-16}{8} \\ x &= -2 \end{aligned}$	$\begin{aligned} 7x - 4x + 5 &= 9 \\ 3x + 5 &= 9 \\ \frac{-5}{-5} &= \frac{-5}{-5} \\ 3x &= 4 \\ \frac{3x}{3} &= \frac{4}{3} \\ x &= \frac{4}{3} \text{ or } 1\frac{1}{3} \end{aligned}$	$\begin{aligned} 7x + 8 &= 3x + 2 \\ -3x &= -3x \\ \frac{4x + 8}{-8} &= \frac{2}{-8} \\ 4x &= -6 \\ \frac{4x}{4} &= \frac{-6}{4} \\ x &= -\frac{3}{2} \text{ or } -1\frac{1}{2} \end{aligned}$
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SOLVE EACH OF THESE:

1. $5x + 2x = 21$	2. $22w - 9w = 30 + 9$	3. $10c + c - 5 = 50$
4. $3x = 8 + x$	5. $7y - 9 = 2y$	6. $t + 27 = 6t$
7. $3b = 5b - 6$	8. $12 + 3k = 9k$	9. $12x - 3 = 4 - 2x$
10. $4d + 0 = 2d + 8$	11. $x + 13 = 3x + 5$	12. $5d + 10 = 8d - 5$

**EQUATION PRACTICE #6**

NAME \_\_\_\_\_

EXAMPLES:

$  \begin{array}{r}  2(x + 3) = 5 \\  2x + 6 = 5 \\  \underline{-6 = -6} \\  2x = -1 \\  \frac{2x}{2} = \frac{-1}{2} \\  x = -\frac{1}{2}  \end{array}  $	$  \begin{array}{r}  2(k - 3) = k - 1 \\  2k - 6 = k - 1 \\  \underline{+6 = +6} \\  2k = k + 5 \\  \underline{-k = -k} \\  k = 5  \end{array}  $	$  \begin{array}{r}  2(m + 3) + 5m = 40 + 8 \\  2m + 6 + 5m = 48 \\  7m + 6 = 48 \\  \underline{-6 = -6} \\  7m = 42 \\  \frac{7m}{7} = \frac{42}{7} \\  m = 6  \end{array}  $
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SOLVE EACH OF THESE:

1. $3(x + 2) = 2x + 10$	2. $3(h - 1) = 2h + 3$	3. $5(b + 2) = -4b + 8$
4. $5(c + 2) = 2(c - 3)$	5. $3x - (x + 2) = 4$	6. $8(2x - 1) = -8$
7. $3h - 2(h + 8) = 7$	8. $33 = 7(w - 3) + 2w$	9. $2(a - 1.6) = -3.8$
10. $\frac{2}{3}(9v + 3) = 0$	11. $\frac{3}{8}(16n - 4) = -\frac{1}{2}$	12. $\frac{1}{4}(2x - 1) = 5$

## Answers

### Equation Sheet #1

- |              |                        |                         |
|--------------|------------------------|-------------------------|
| 1) $a = 13$  | 9) $x = 14$            | 17) $c = -8.4$          |
| 2) $a = -22$ | 10) $a = -15$          | 18) $n = 1$             |
| 3) $c = 20$  | 11) $x = -22$          | 19) $y = 26$            |
| 4) $x = 8$   | 12) $r = 14$           | 20) $x = -54$           |
| 5) $b = 9$   | 13) $y = -1$           | 21) $x = 0$             |
| 6) $d = 11$  | 14) $m = 10$           | 22) $w = 5$             |
| 7) $x = 6$   | 15) $y = 3\frac{1}{4}$ | 23) $n = 10\frac{1}{3}$ |
| 8) $b = 0$   | 16) $p = 10.2$         | 24) $x = 0$             |

### Equation Sheet #2

- |                      |                        |                      |
|----------------------|------------------------|----------------------|
| 1) $x = 50$          | 2) $w = 78$            | 3) $t = 128$         |
| 4) $c = \frac{8}{9}$ | 5) $a = \frac{24}{5}$  | 6) $x = \frac{6}{5}$ |
| 7) $c = 18$          | 8) $x = 12$            | 9) $d = 45$          |
| 10) $b = 32$         | 11) $w = 140$          | 12) $x = 91$         |
| 13) $x = 9$          | 14) $x = 8\frac{3}{4}$ | 15) $x = 18$         |

### Equation Sheet #3

- |                         |                          |                         |
|-------------------------|--------------------------|-------------------------|
| 1) $x = -4$             | 2) $c = -9$              | 3) $a = 3$              |
| 4) $c = \frac{1}{8}$    | 5) $a = -\frac{7}{9}$    | 6) $b = 1\frac{27}{40}$ |
| 7) $x = 17$             | 8) $d = 9$               | 9) $k = 10$             |
| 10) $h = \frac{15}{28}$ | 11) $h = \frac{3}{28}$   | 12) $y = -\frac{7}{18}$ |
| 13) $p = \frac{3}{8}$   | 14) $h = 1\frac{17}{45}$ | 15) $c = 4\frac{5}{7}$  |
| 16) $x = 1.3$           | 17) $d = -8.2$           | 18) $x = 11$            |
| 19) $x = 15$            | 20) $x = 25$             | 21) $c = 49$            |
| 22) $x = 18\frac{1}{3}$ | 23) $k = 1.6$            | 24) $c = \frac{7}{12}$  |

**Equation Sheet #4**

1)  $x = -2$

4)  $x = 21$

7)  $x = -0.1$

10)  $x = 98$

13)  $c = 2$

2)  $x = 0.03$

5)  $a = 14$

8)  $x = \frac{5}{3}$

11)  $x = \frac{1}{5}$

14)  $t = 0$

3)  $x = -5$

6)  $x = -\frac{9}{4}$

9)  $x = \frac{5}{2}$

12)  $x = -3\frac{46}{105}$

15)  $x = \frac{7}{2}$

**Equation Sheet #5**

1)  $x = 3$

4)  $x = 4$

7)  $b = 3$

10)  $d = 4$

2)  $w = 3$

5)  $y = \frac{9}{5}$

8)  $k = 2$

11)  $x = 4$

3)  $c = 5$

6)  $t = 5.4$

9)  $x = \frac{1}{2}$

12)  $d = 5$

**Equation Sheet #6**

1)  $x = 4$

4)  $c = -\frac{16}{3}$

7)  $h = 23$

10)  $v = -\frac{1}{3}$

2)  $n = 6$

5)  $x = 3$

8)  $w = 6$

11)  $n = \frac{1}{6}$

3)  $b = -\frac{2}{9}$

6)  $x = 0$

9)  $a = -0.3$

12)  $x = 10.5$