
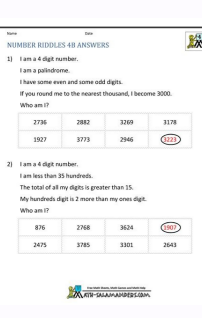


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Solving Equations Practice for Quiz

1) $41 = y + 11$	2) $-5 = y = 1$
3) $5y + 6 = 16$	4) $-5x = 20$
5) $5n = 2n + 6$	6) $y = 24 - 3y$
7) $2b = 80 - 8b$	8) $30 = 8 - 2x$
4) $98 - 4b = -11b$	5) $-7a = -12a - 65$
9) $39c + 78 = 33c$	10) $51a - 56 = 44a$
11) $4n + 5 = 6n + 7$	12) $5p - 9 = 2p + 12$

19. Use substitution to calculate the values of x , y and z :

$$2x + 3y - z = 14$$

$$x = y - 1$$

$$z = 3y + 2$$

20. Use substitution to calculate the values of x , y and z :

$$3x - 7y + 5z = 38$$

$$4x + 3y - 9z = 34$$

$$-5x - 2y + 4z = -56$$

Solve the following:

a) $x + 2 = 14$
 "split the absolute value"
 $x + 2 = 14$ OR $x + 2 = -14$
 $x = 12$ OR $x = -16$

b) $2x + 6 = 4x$
 "split the absolute value"
 $2x + 6 = 4x$ OR $2x + 6 = -4x$
 $x = 3$ OR $x = -1$
 "Check for extraneous solutions"
 If $x = 3$: $2(3) + 6 = 4(3)$ $12 = 12$ ✓
 If $x = -1$: $2(-1) + 6 = 4(-1)$ $4 = -4$ ✗

c) $|x + 5| = -x + 3$
 "split the absolute value"
 $x + 5 = -x + 3$ OR $x + 5 = -(-x + 3)$
 $2x = -2$ OR $x + 5 = x - 3$
 $x = -1$ OR $5 = -3$ ✗
 Check answer:
 If $x = -1$: $|(-1) + 5| = -(-1) + 3$
 $4 = 4$ ✓

d) $3x - 2 = 5 + x$
 $x - 2 = 5 + x$ NO solution
 $-2 = 7$ ✗
 $x - 2 = -(5 + x)$
 $x - 2 = -5 - x$ $x = -3/2$
 $-2x = -3$ $x = 1.5$
 $-(x - 2) = -(5 + x)$
 $-x + 2 = -5 - x$ NO solution
 $2 = -7$ ✗

e) $2x + 1 = 5x + 1 = 12$
 "collect like terms"
 $-3x + 1 = -12$
 $-3x = -13$
 $x = 13/3$
 "split and solve"
 $x + 1 = 4$ OR $x + 1 = -4$
 $x = 3$ OR $x = -5$
 (If you check both answers, you'll see that they both work!)

f) $3x + 6 = -2x + 10 + 20$
 $5x + 6 = -2x + 30$
 $7x = 24$
 $x = 24/7$
 Check answer:
 $3(24/7) + 6 = -2(24/7) + 10 + 20$
 $72/7 + 6 = -48/7 + 30$
 $72/7 + 42/7 = -48/7 + 210/7$
 $114/7 = 162/7$ ✗
 extraneous
 $3x + 6 = -2x + 30$
 $5x = 24$
 $x = 24/5$
 Check answer:
 $3(24/5) + 6 = -2(24/5) + 10 + 20$
 $72/5 + 6 = -48/5 + 30$
 $72/5 + 30/5 = -48/5 + 150/5$
 $102/5 = 102/5$ ✓

g) $3x + 9 = x + 1$ $3x + 9 = -(x + 1)$
 $x = -4$ $3x + 9 = -x - 1$
 $4x = -10$ $x = -2.5$
 Both solutions are extraneous!
NO SOLUTIONS

h) $3 - 10x - 5 = -17$
 $-10x - 2 = -20$
 $-10x = -18$
 $x = 1.8$

i) $3x + 6 = -2x + 10 + 20$
 $5x + 6 = -2x + 30$
 $7x = 24$
 $x = 24/7$
 Check answer:
 $3(24/7) + 6 = -2(24/7) + 10 + 20$
 $72/7 + 6 = -48/7 + 30$
 $72/7 + 42/7 = -48/7 + 210/7$
 $114/7 = 162/7$ ✗
 extraneous
 $3x + 6 = -2x + 30$
 $5x = 24$
 $x = 24/5$
 Check answer:
 $3(24/5) + 6 = -2(24/5) + 10 + 20$
 $72/5 + 6 = -48/5 + 30$
 $72/5 + 30/5 = -48/5 + 150/5$
 $102/5 = 102/5$ ✓

Graphs:
 (no intersections)
 (2 intersections)

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