Name: \_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

STUDY GUIDE - Equations

|  |  |  |
| --- | --- | --- |
| 1. -4c – 6 = -2c | 1. 15 = -11b + 4 | 1. -75 – k = -95 |
| 1. 9x – 15 = 39 | 1. 4 - = 18 | 1. X – 7 = 2x -6 |
| 1. 2a + 6 = -a - 8 | 1. 2d – 8 = -10 | 1. b + b + 18 = 4b |
| 1. 7a = 2(a-10) | 1. 2(x-4) = 3x | 1. 4(8-y) = 2y + 16 |
| 1. 7a – 4 + 2a = 3a - 2 | 1. 9 – (2k -3) = k | 1. 8x + 36 = 4(7-x) |
|  | | |

Solutions: Practice: Equations with Variables on both sides

|  |  |  |
| --- | --- | --- |
| 1. 9t = 4t + 120   t = 24 | 1. 42 + 3b = - 4b – 14   b = -8 | 1. -6 – 8c = 3c + 16   c = -2 |
| 1. 3y + 7 = -6 – 56   Y = -7 | 1. 3y – 20 = 8y   Y = -4 | 1. x – 7 = 2x -6   x = -1 |
| 1. 2a + 6 = -a – 8   a = | 1. 4w + 8 = 6w – 4   w = 6 | 1. b + b + 18 = 4b   b = 9 |
| 1. 7a = 2(a-10)   a = -4 | 1. 2(x-4) = 3x   x = -8 | 1. 4(8-y) = 2y + 16   y = |
| 1. 7a – 4 + 2a = 3a – 2   a = | 1. 9 – (2k -3) = k   k = 4 | 1. 8x + 36 = 4(7-x)   x = |
| 1. The figures have the same perimeter. Find the value of the variable.   3(2s + 12) = 3s + 3s + (s + 7) + (s + 7)  s + 7  3s  2s + 12  2s + 12  2s + 12  S = 11 | | |