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

STUDY GUIDE - Equations

|  |  |  |
| --- | --- | --- |
| 1. -4c – 6 = -2c
 | 1. 15 = -11b + 4
 | 1. -75 – k = -95
 |
| 1. 9x – 15 = 39
 | 1. 4 - $\frac{m}{5}$ = 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 = $-4\frac{2}{3}$ | 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 = $2 \frac{2}{3}$ |
| 1. 7a – 4 + 2a = 3a – 2

a = $\frac{1}{3}$ | 1. 9 – (2k -3) = k

k = 4 | 1. 8x + 36 = 4(7-x)

x = $-\frac{2}{3}$ |
| 1. The figures have the same perimeter. Find the value of the variable.

 3(2s + 12) = 3s + 3s + (s + 7) + (s + 7)s + 73s2s + 122s + 122s + 12S = 11  |