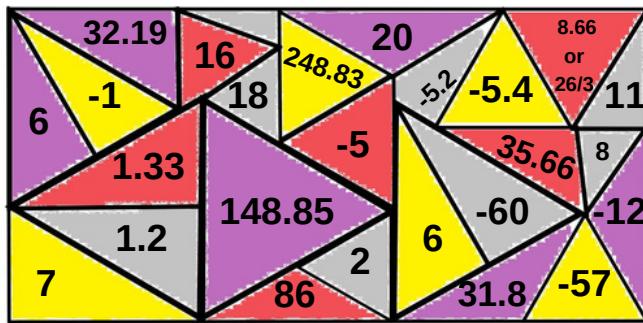# Answer

Column 1

1. $4(16 - c) = 0$
   $64 - 4c = 0$
   $64 / 4 = c$
   16 = c

2. $6(g - 43) = 3g$
   $6g - 258 = 3g$
   $6g - 3g = 258$
   $3g = 258$
   g = 86

3. $-2(b - 6) = b - 14$
   $-2b + 12 = b - 14$
   $-2b - b = -14 -12$
   $-3b = -26$
   b = 8.66 or 26/3

4. $3(9 - q) - 5 = 18$
   $27 - 3q - 5 = 18$
   $27 - 18 - 5 = 3q$
   $4 = 3q$
   1.33 = q

5. $-5(7 - t) = 2(t + 12)$
   $-35 + 5t = 2t + 24$
   $5t - 2t = 24 + 35$
   $3t = 59$
   t = 35.66

6. $-2k - 5 - k = k + 15$
   $-2k - k - k = 15 + 5$
   $-4k = 20$
   k = -5

Column 2

7. $8w + 7 - w = 2w - 20$
   $8w - w - 2w = -20 - 7$
   $5w = -27$
   w = -5.4

8. $-(60 + 4m) = 42$
   $-60 - 4m = 42$
   $-4m = 42 + 60$
   $-4m = 102$
   m = -57

9. $8(2 - v) = 6(3 - v)$
   $16 - 8v = 18 - 6v$
   $-8v + 6v = 18 - 16$
   $-2v = 2$
   v = -1

10. $4n + 20 = 6n + 8$
    $20 - 8 = 6n - 4n$
    $12 = 2n$
    6 = n

11. $7 = 110 - 6f + 140$
    $6f = 110 + 140 - 7$
    $6f = 243$
    f = 248.83

12. $-4(2d - 3) = -(6d + 2)$
    $-8d + 12 = -6d - 2$
    $-8d + 6d = -2 - 12$
    $-2d = -14$
    d = 7

Column 3

13. $5h + 8 = 2(6h - 70) - 6$
    $5h + 8 = 12h - 140 - 6$
    $8 + 140 + 6 = 12h - 5h$
    $154 = 7h$
    148.85 = h

14. $3(3e - 9) + 6e = 30$
    $9 e - 27 + 6e = 30$
    $9e + 6e = 30 + 27$
    $15e = 57$
    e = 31.8

15. $2(4 + 2x) = -2(8 - x)$
    $8 + 4x = -16 + 2x$
    $4x + 2x = -16 - 8$
    $2x = -24$
    x = -12

16. $p = 50 - (10 + p)$
    $p = 50 - 10 - p$
    $p + p = 40$
    $2p = 40$
    p = 20

17. $2 = 6y - (4 + 5y)$
    $2 = 6y - 4 - 5y$
    $2 + 4 = y$
    6 = y

18. $2(4 + 2x) = -4(8 - 4x)$
    $8 + 4x = -32 + 16x$
    $8 + 32 = 16x - 4x$
    $40 = 12x$
    32.19 = x