Solving Multi-Step Equations

Name: _______________________________  Date: __________________________

Solve the following equations. Show ALL of your work.

1) $19 - h - h = -13$

2) $14 + 6a - 8 = 18$

3) $7 + 3k - 12 = 25$

4) $5n - 16 - 8n = -10$

5) $v + 42 - 5v = -34$

6) $x - 1 + 5x = 23$
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7) \[ 42j + 18 - 19j = -28 \]  
8) \[ 6c - 13 - 4c = -49 \]

9) \[ 6(3m + 5) = 66 \]  
10) \[ 3(4y - 8) = 12 \]

11) \[ -5(x - 3) = -25 \]  
12) \[ 3(2 - 3h) = 42 \]
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13) \( 5(2w - 4) = -10 \)  
14) \( -3(2t - 1) = -3 \)

15) \( x - 2(x + 10) = 12 \)  
16) \( 5(3q - 10) - 5q = -15 \)

Write an equation to model the situation. Then solve the equation.

17) General admission tickets to the fair cost $3.50 per person. Ride passes cost an additional $5.50 per person. Parking costs $6 for the family. The total costs for ride passes and parking was $51. How many people in the family attended the fair?