Skills: Solve one and two step equations.

- Can we simplify the left and/or right side of the equation (like terms together)?
- Use OPPOSITE operations to
    - Isolate the variable; what side has 'more'?
    - Solve for the unknown

a) $x + 11 = 30$

b) $6 = k - 6$

c) $-12 = 4a$

d) $\frac{n}{10} = -9$

e) $1 + 8x - 8 = 17$

f) $5 - 3p + 8p = 15$

g) $7n - 5 = 1 + 6n$

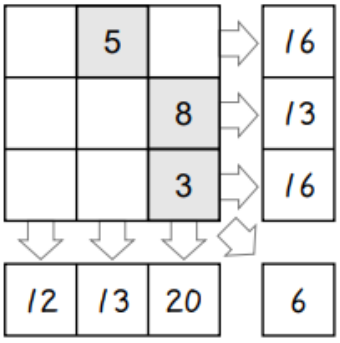
h) $4x + 4x - 8 = 3x - 7$

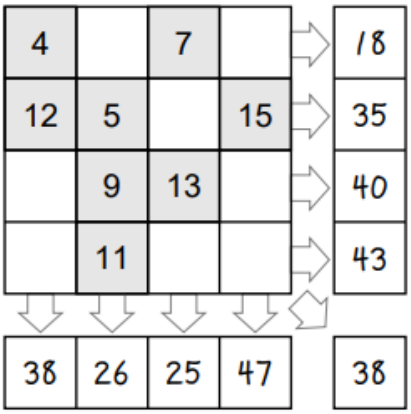
Skills: Use logic to solve puzzles, no guessing.

Addition Squares

Name: _____ **Date:** _____

Each row, column and diagonal add up to the values shown. Can you logically fill in the rest of the grid of numbers?





Outcome: Solve equations that contain the variable under the radical.

- Can we simplify the left and/or right side of the equation (like terms together)?
- Use OPPOSITE operations to
  - Isolate the variable expression under the radical
  - Square each side of the equation (past skill - squaring a square root)
  - Solve for the unknown

1. $8 = \sqrt{x + 4}$

2. $3 = \sqrt{3x - 12}$

3. $\sqrt{5x} + 10 = 20$

4. $\sqrt{2x} - 9 = -5$

5. $3 = \sqrt{x - 9} + 1$

6. $\sqrt{-1 - 13x} = 8$

7. $7 + \sqrt{x - 9} = 17$

8. $-12 = -6\sqrt{x + 2}$