

4.0 Solve Skills



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?

I. no guess
 II.
 III.
 IV.

2	1	7	→	10
8	9	4	→	21
5	3	6	→	14
↓	↓	↓	↓	↓
15	13	17		17

			1	→	25
4	15			→	40
		13	16	→	42
8	6	12		→	29
↓	↓	↓	↓	↓	↓
19	42	48	27		36

	10	22	7	4	→	48
11			24	17	→	81
13		12		2	→	60
		23	3	16	→	85
6			15		→	51
↓	↓	↓	↓	↓	↓	↓
53	95	74	63	40		42

	31			36		→	153
	30	27	33	8	2	→	107
	10	22	28	26		→	119
14	15	13	29	4		→	76
16		18			12	→	93
	21	6	20	35	25	→	118
↓	↓	↓	↓	↓	↓	↓	↓
75	112	118	163	132	66		132

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Addition Squares ANSWER KEY



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8	9	4	→	21
5	3	6	→	14
↓	↓	↓	↓	↓
15	13	17	→	17

5	10	9	1	→	25
4	15	14	7	→	40
2	11	13	16	→	42
8	6	12	3	→	29
↓	↓	↓	↓	↓	↓
19	42	48	27	→	36

5	10	22	7	4	→	48
11	21	8	24	17	→	81
13	19	12	14	2	→	60
18	25	23	3	16	→	85
6	20	9	15	1	→	51
↓	↓	↓	↓	↓	↓	↓
53	95	74	63	40	→	42

3	31	32	34	36	17	→	153
7	30	27	33	8	2	→	107
24	10	22	28	26	9	→	119
14	15	13	29	4	1	→	76
16	5	18	19	23	12	→	93
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↓	↓	↓	↓	↓	↓	↓	↓
75	112	118	163	132	66	→	132

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opposite steps

$$1. \quad \begin{array}{r} x + 11 = 30 \\ -11 \quad -11 \\ \hline \end{array}$$

$$x = 19$$

$$2. \quad \begin{array}{r} 6 = k - 6 \\ +6 \quad +6 \\ \hline \end{array}$$

$$12 = k$$

ISOLATE
VARIABLES

$$3. \quad \begin{array}{r} -12 = 4a \\ \frac{-12}{4} = \frac{4a}{4} \end{array}$$

$\div 4$

$$a = -3$$

$$4. \quad \frac{n}{10} = -9$$

$\times 10$

$$n = -90$$

4.0 Solve Skills

5. $1 + 8x - 8 = 17$

ISOLATE
8x

$$\begin{array}{r} 8x - 7 = 17 \\ +7 \quad +7 \\ \hline \end{array}$$

$$\begin{array}{r} 8x = 24 \\ \hline 8 \quad 8 \end{array}$$

$$x = 3$$

simplify

opposites

OPP

6. $5 - 3p + 8p = 15$

$$\begin{array}{r} 5 + 5p = 15 \\ -5 \quad -5 \\ \hline \end{array}$$

$$\div 5 \quad 5p = 10$$

$$p = 2$$

7. $7n - 5 = 1 + 6n$

$$\begin{array}{r} -6n \\ \hline \end{array}$$

more "n"

$$\begin{array}{r} -6n \\ \hline \end{array}$$

$$\begin{array}{r} n - 5 = 1 \\ +5 \quad +5 \\ \hline \end{array}$$

$$n = 6$$

8. $4x + 5x - 9 = 4x - 4$

$$\begin{array}{r} 9x - 9 = 4x - 4 \\ -4x \quad -4x \\ \hline \end{array}$$

$$\begin{array}{r} 5x - 9 = -4 \\ +9 \quad +9 \\ \hline \end{array}$$

$$\div 5$$

$$5x = 5$$

$$x = 1$$

more x