

Investigation 2 Adding two odd numbers (PAS1.1, NS1.2)

$3 + 7 = \underline{\quad\quad}$ $5 + 9 = \underline{\quad\quad}$ $17 + 21 = \underline{\quad\quad}$ $39 + 25 = \underline{\quad\quad}$

What have you noticed about the answers to each question? _____

Do you think this will always be true? _____ Check: _____ + _____ = _____

Describe your discovery. _____

Investigation 3 Adding an odd number and an even number (PAS1.1, NS1.2)

$9 + 10 = \underline{\quad\quad}$ $13 + 8 = \underline{\quad\quad}$ $7 + 16 = \underline{\quad\quad}$ $23 + 30 = \underline{\quad\quad}$

What have you noticed about the answers to each question? _____

Do you think this will always be true? _____ Check: _____ + _____ = _____

Describe your discovery. _____

Investigation 4 Adding consecutive odd numbers in ascending order (NS1.2, NS2.3, PAS2.1)

Continue writing the pattern below to discover the first six terms.

$1 = 1 \leftarrow 1\text{st term}$

$1 + 3 = 4 \leftarrow 2\text{nd term}$

$1 + 3 + 5 = \underline{\quad\quad} \leftarrow 3\text{rd term}$

$1 + 3 + 5 + 7 = \underline{\quad\quad} \leftarrow 4\text{th term}$

$\underline{\quad\quad\quad\quad\quad} = \underline{\quad\quad} \leftarrow 5\text{th term}$

$\underline{\quad\quad\quad\quad\quad} = \underline{\quad\quad} \leftarrow$

Describe this number pattern. _____

What is special about the answers? _____

Investigation 5 Adding consecutive counting numbers in ascending order (NS1.2, PAS1.1, NS4.1)

Continue writing the pattern below to discover the first seven terms.

$1 = 1 \leftarrow 1\text{st term}$

$1 + 2 = 3 \leftarrow 2\text{nd term}$

$1 + 2 + 3 = \underline{\quad\quad} \leftarrow 3\text{rd term}$

$1 + 2 + 3 + 4 = \underline{\quad\quad} \leftarrow 4\text{th term}$

$\underline{\quad\quad\quad\quad\quad} = \underline{\quad\quad} \leftarrow 5\text{th term}$

$\underline{\quad\quad\quad\quad\quad} = \underline{\quad\quad} \leftarrow$

$\underline{\quad\quad\quad\quad\quad} = \underline{\quad\quad} \leftarrow$

Describe this number pattern. _____
