

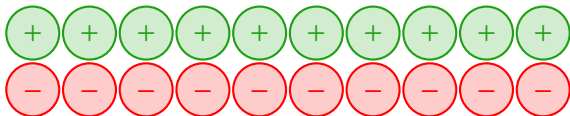
negative numbers

type c (+-)

# Negative numbers

## Addition and subtraction of negative numbers

What is the value of the following diagram?



# Negative numbers

## Touching symbols

When two symbols are touching (e.g.  $7 +^- 6$ )

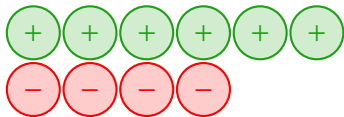
- the first symbol is an instruction to draw (+) or remove (-) discs.
- the second symbol describes the type of disc (+ positive discs or - negative discs).

So  $7 +^- 6$  means 'draw six negative discs'.

# Negative numbers

Adding positive quantities

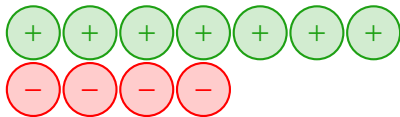
$$2 + + 4$$



# Negative numbers

Adding positive quantities

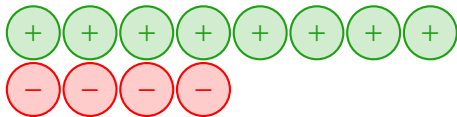
$$2 + + 4$$



# Negative numbers

Adding positive quantities

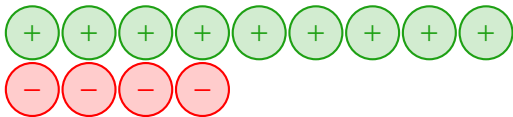
$$2 + + 4$$



# Negative numbers

Adding positive quantities

$$2 + + 4$$





# Negative numbers

Adding positive quantities

$$2 + + 4$$



# Negative numbers

Adding negative quantities

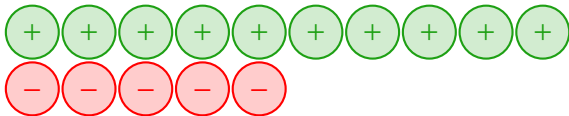
$$6 +^{-} 5$$



# Negative numbers

Adding negative quantities

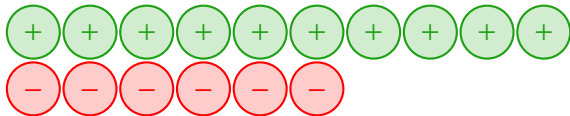
$$6 +^{-} 5$$



# Negative numbers

Adding negative quantities

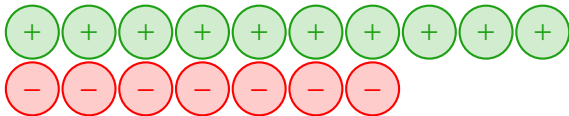
$$6 +^{-} 5$$



# Negative numbers

Adding negative quantities

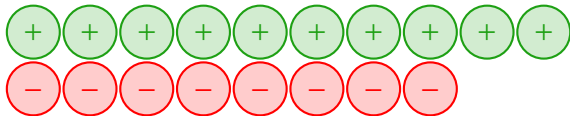
$$6 +^{-} 5$$



# Negative numbers

Adding negative quantities

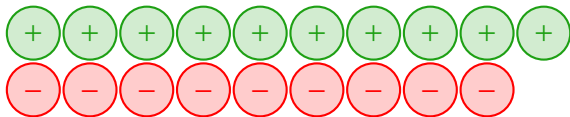
$$6 +^{-} 5$$



# Negative numbers

Adding negative quantities

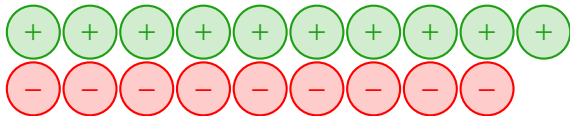
$$6 +^{-} 5$$



# Negative numbers

Subtracting positive quantities

$$1 - ^+ 6$$

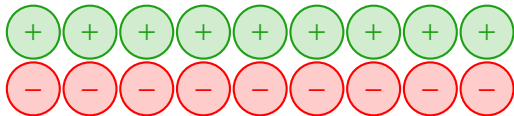




# Negative numbers

Subtracting positive quantities

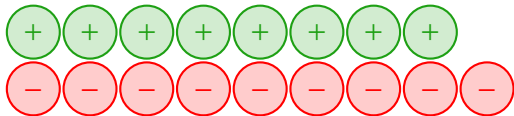
$$1 - ^+ 6$$



# Negative numbers

Subtracting positive quantities

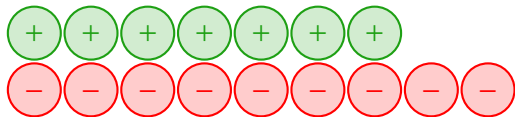
$$1 - ^+ 6$$



# Negative numbers

Subtracting positive quantities

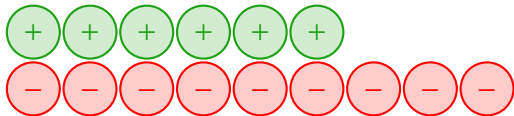
$$1 - ^+ 6$$



# Negative numbers

Subtracting positive quantities

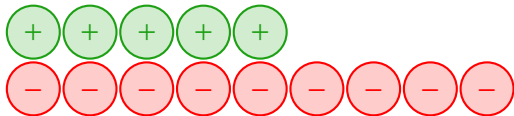
$$1 - ^+ 6$$



# Negative numbers

Subtracting positive quantities

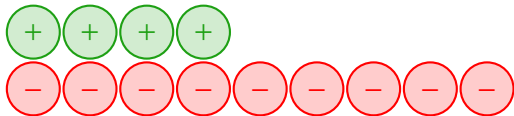
$$1 - ^+ 6$$



# Negative numbers

Subtracting positive quantities

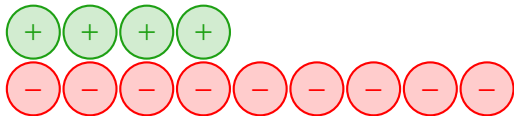
$$1 - ^+ 6$$



# Negative numbers

Subtracting negative quantities

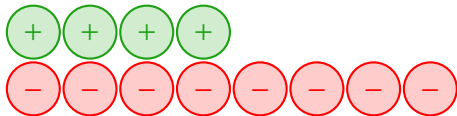
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

$$-5 - -8$$

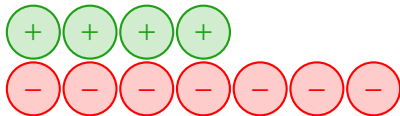




# Negative numbers

Subtracting negative quantities

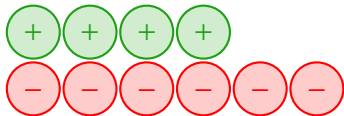
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

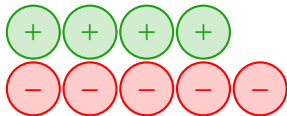
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

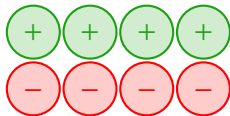
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

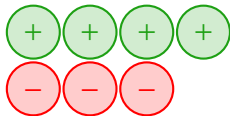
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

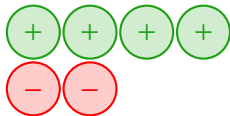
$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

$$-5 - -8$$



# Negative numbers

Subtracting negative quantities

$$-5 - -8$$

