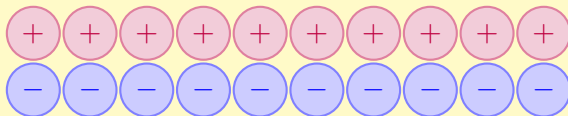


Negative numbers

Negative numbers

Addition and subtraction of negative numbers

What is the value of the following diagram?



Touching symbols

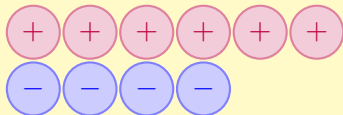
When two symbols are touching (e.g. $7 +^- 6$)

- ▶ 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'.

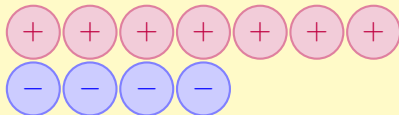
Adding positive quantities

$$2 + + 4$$



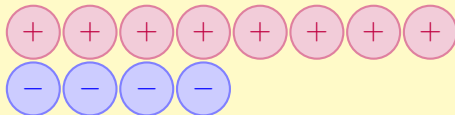
Adding positive quantities

$$2 + + 4$$



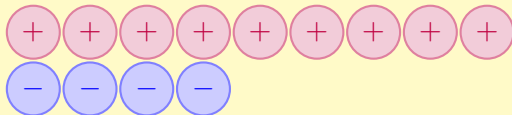
Adding positive quantities

$$2 + + 4$$



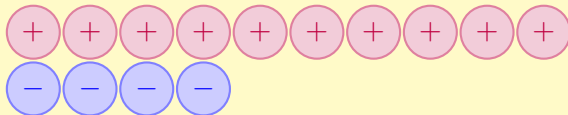
Adding positive quantities

$$2 + + 4$$



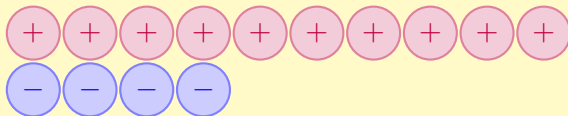
Adding positive quantities

$$2 + + 4$$



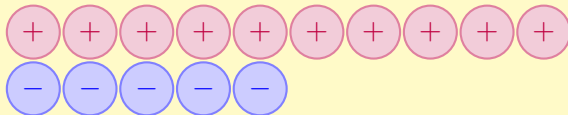
Adding negative quantities

$$6 +^{-} 5$$



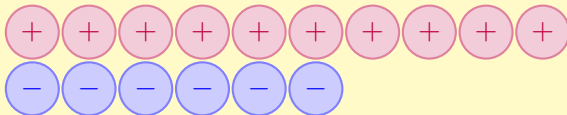
Adding negative quantities

$$6 +^{-} 5$$



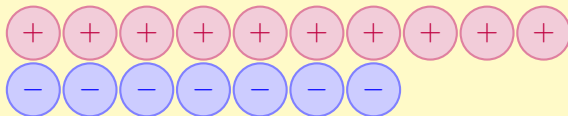
Adding negative quantities

$$6 +^{-} 5$$



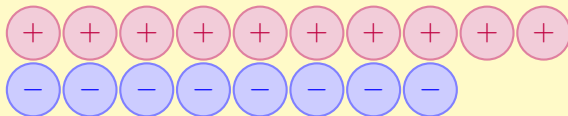
Adding negative quantities

$$6 +^{-} 5$$



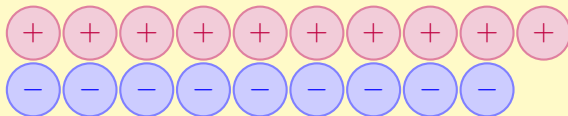
Adding negative quantities

$$6 +^{-} 5$$



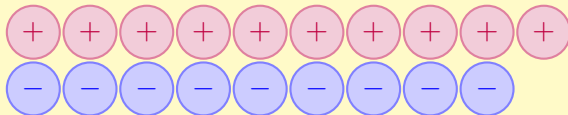
Adding negative quantities

$$6 +^{-} 5$$



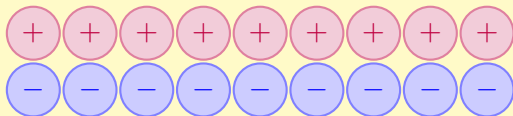
Subtracting positive quantities

$$1 - +6$$



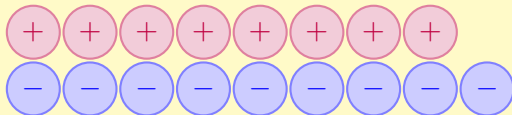
Subtracting positive quantities

$$1 - +6$$



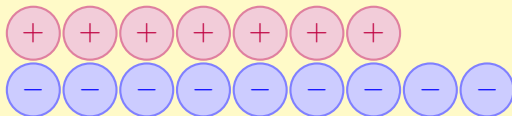
Subtracting positive quantities

$$1 - +6$$



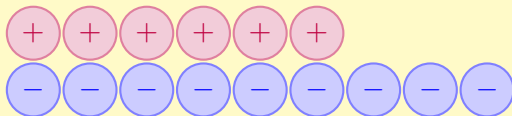
Subtracting positive quantities

$$1 - + 6$$



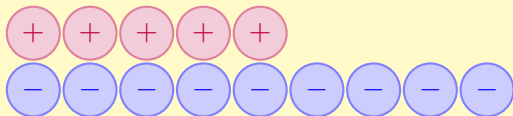
Subtracting positive quantities

$$1 - + 6$$



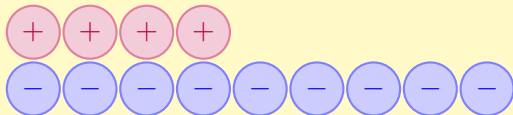
Subtracting positive quantities

$$1 - + 6$$



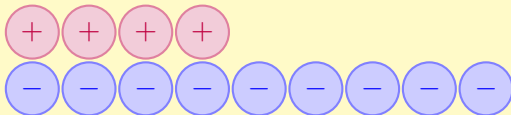
Subtracting positive quantities

$$1 - + 6$$



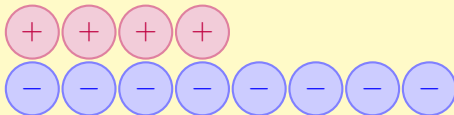
Subtracting negative quantities

$$-5 - -8$$



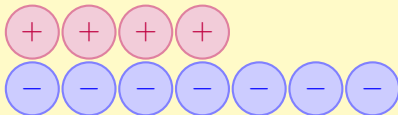
Subtracting negative quantities

$$-5 - -8$$



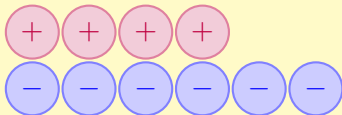
Subtracting negative quantities

$$-5 - -8$$



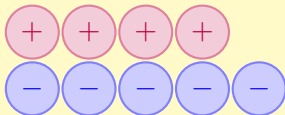
Subtracting negative quantities

$$-5 - -8$$



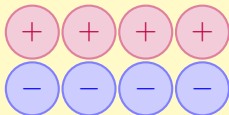
Subtracting negative quantities

$$-5 - -8$$



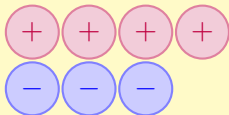
Subtracting negative quantities

$$-5 - -8$$



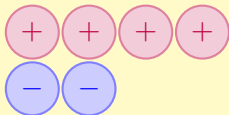
Subtracting negative quantities

$$-5 - -8$$



Subtracting negative quantities

$$-5 - -8$$



Subtracting negative quantities

$$-5 - -8$$

