

Addition and Subtraction Algorithms



add numbers with the **same sign**

1.

2.

*examples:

$$+2 + +7 =$$

$$-6 + -5 =$$



add numbers with **different signs**

1.

2.

*examples:

$$-2 + +7 =$$

$$-6 + +5 =$$



subtract numbers with the **same sign**

1.

2.

*examples:

$$-2 - -7 =$$

$$+5 - +6 =$$



subtract numbers with **different signs**

1.

2.

*examples:

$$+2 - -7 =$$

$$-5 - +6 =$$

Teacher Version



add numbers with the **same sign**

1. Ignore the signs and add the two numbers
2. Give the answer the sign of the two numbers

*examples:

$$+2 + +7 = +9$$

$$-6 + -5 = -11$$



add numbers with **different signs**

1. Ignore the signs and subtract the two numbers
2. Give the answer the sign of the greatest absolute value

*examples:

$$-2 + +7 = +5$$

$$-6 + +5 = -1$$



subtract numbers with the **same sign**

1. Ignore the signs and subtract the two numbers
2. If the first number (with the sign) is greater, the answer is positive **and** if the second number (with the sign) is greater, the answer is negative

*examples:

$$-2 - -7 = +5$$

$$+5 - +6 = -1$$



subtract numbers with **different signs**

1. Ignore the signs and add the two numbers
2. Give the answer the sign of the first number

*examples:

$$+2 - -7 = +9$$

$$-5 - +6 = -11$$