

Signed Number Operations Reference Sheet**➤ Adding Signed Numbers**

★ If the signs are the **same**, find the **sum** and keep the sign.

ex. $-6 + -9 = -15$

★ If the signs are **different**, find the **difference**, and take the sign of the number with the larger absolute value

ex. $-13 + 6 = -7$

➤ Subtracting Signed Numbers

★ The “**KFC**” Rule: **Keep, Flip, Change** tells you to keep the sign of the first number, flip the subtraction to addition, and change the sign of the second number. You can then apply the rules for addition.

ex. $-14 - 9$
 K F C
 $-14 + -9 = -23$

*Another Hint: *Remember, taking away a negative influence is just as good as adding a positive influence!*

ex. $-10 - (-4) = -10 + 4 = -6$

➤ Multiplying Signed Numbers

★ positive * positive = positive

★ negative * negative = positive

★ positive * negative = negative

★ negative * positive = negative

ex. $-9 * 8 = -72$

➤ Dividing Signed Numbers

★ positive ÷ positive = positive

★ negative ÷ negative = positive

★ positive ÷ negative = negative

★ negative ÷ positive = negative

ex. $-8 ÷ -2 = 4$

✎ Optional Extra Practice:

1) $-16 + 9$

2) $18 * (-3)$

3) $8 + (-20)$

4) $-20 - 3$

5) $-9 - (-10)$

6) $-64 ÷ (-8)$

7) $99 ÷ -3$

8) $-11 * -11$

9) create a subtraction problem for which the answer is -7

Optional Extra Practice Solutions:

1. -7 2. -54 3. -12 4. -23 5. 1 6. 8
7. -33 8. 121 9. will vary (for example, $-3 - 4 = -7$ or $1 - 8 = -7$, etc)