

# UNIT 1: SIMPLIFY EXPRESSIONS

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Objectives: I can solve problems by adding & subtracting integers.

## Adding & Subtracting Integers

Don't forget how to add integers now that we know how to subtract!

### \* Rules for adding integers:

If the signs are the same: Add & keep the same sign

If the problem is already ADDITION... Just do it!

If the signs are different: Find the difference and give it the sign of the larger absolute value

### \* Rule for subtracting integers: Change it to:

Don't subtract! Add the opposite instead!

If the problem contains SUBTRACTION, do this FIRST!

...Then follow the rules for ADDITION 😊

### Practice

Solve.

①  $-6 + (-2) = -4$   
 $-6 + 2$

②  $5 + -3 = 2$   
*diff*

③  $3 + -5 = -2$   
*diff*

④  $-2 + -3 = -5$   
*same*

⑤  $5 + (-1) = 4$   
 $5 + 1$

⑥  $-1 + 1 = 0$   
*diff*

⑦  $3 + -10 = -7$   
*diff*

⑧  $-20 + 21 = 1$   
*diff*

⑨  $-6 + 4 = -2$   
 $-6 + (-4)$

⑩  $4 - (-3) = 7$   
 $4 + 3$

⑪  $-9 - (-6) = -3$   
 $-9 + 6$

⑫  $5 - 12 = -7$   
 $5 + (-12)$

⑬  $-4 - 9 = -13$   
 $-4 + (-9)$

⑭  $-2 - 10 + (-4) = -16$   
 $-2 + (-10) + (-4)$

⑮  $10 + (-6) + 15 + (-6) = -5$   
 $10 + (-6) + (-15) + 6$   
 $16 + (-21)$

⑯  $-2 - 6 + (-1) - (-3) = -6$   
 $-2 + (-6) + (-1) + 3$   
 $-9 + 3$

Evaluate if  $a = 2$ ,  $b = -6$  and  $c = 10$

⑰  $a + b + c$   
 $(2) + (-6) + (10)$   
 $2 + 6 + 10$   
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⑱  $c + b + a$   
 $(10) + (-6) + (2)$   
 $10 + 6 + (-2)$   
 $16 + (-2)$   
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⑲  $a - b + 2c$   
 $(2) - (-6) + 2(10)$   
 $2 + 6 - 20$   
 $8 + (-20) = -12$

multiply!

Homework BEGINS on the next page.

