Adding Integers

(a) Adding Integers with the same sign

Just add and keep the sign in your answer.

Example: **(a) -11 + (- 5) = - 16** **(b) 7 + 4 = 11** **(c) +6 + (+8) = 14**

Use this rule to add the following:

(a) -14 + -7 =	**(b) 14 + 7 =**
(c) 11 + (+9) =	**(d) -11 + (-9) =**
(e) (-10) + (-1) =	**(f) 10 + 1 =**
(g) (+17) + (+9) =	**(h) (-17) + (-9) =**
(i) 12 + 8 =	**(j) -12 + -8 =**

(b) Adding Integers with different signs

Subtract, then write the sign of the bigger absolute value in your answer

Example: **(a) 5 + (-11)**
11 – 5
11 is bigger and it is negative so
= - 4

(b) 8 + (-7)
8 - 7
8 is bigger and it is positive so
= 1

Use this rule to add the following:

(a) -14 + 7 =	**(b) 14 + (-7) =**
(c) 11 + (-9) =	**(d) -11 + (+9) =**
(e) (-10) + (+1) =	**(f) 10 + (-1) =**
(g) (-17) + (+9) =	**(h) (+17) + (-9) =**
(i) 12 + (-8) =	**(j) -12 + 8 =**

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Subtracting Integers

Just remember: **KEEP** **CHANGE** **CHANGE**

Keep the first number as it is
Change the – sign to a +
Change the number after the sign to its opposite
Then use the rules for adding integers

Example: **(a) 9 – (-4)**
9 + (+4)
Use adding same sign rule
= 13

(b) -12 – 8
-12 + (-8)
Use adding same sign rule
= -20

(c) -6 – (-5)
-6 + (+5)
Use adding different sign rule
6 – 5
= -1

Use these steps to subtract the following:

(a) -14 - 7 =	**(b) 14 - (-7) =**
(c) 11 - (-9) =	**(d) -11 - (+9) =**
(e) (-10) - (+1) =	**(f) -10 - (-1) =**
(g) (-17) - (+9) =	**(h) (-17) - (-9) =**
(i) -12 - (-8) =	**(j) -12 - 8 =**

Application:

The temperature in New York was -7^{0}C on Saturday. The temperature went up by 17^{0}C on Sunday and dropped by 6^{0}C on Monday.

What was the temperature on Monday?

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