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) $+6 + (+8) = 14$

(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)
$$5 + (-11)$$

$$11 - 5$$

(b)
$$8 + (-7)$$

8 - 7

11 is bigger and it is negative so

= -4

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 =		

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

= 13

(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°C on Saturday. The temperature went up by 17°C on Sunday and dropped by 6°C on Monday.

What was the temperature on Monday?