Equal Additions Technique for Subtracting

Mental Math Strategy

***When** to use this strategy:* Use this strategy when you are subtracting which would require regrouping (borrowing). This technique allows you to subtract in your head without regrouping. This technique is often used when the number you are subtracting is greater than 5.
***How** to use this strategy:* To use this strategy add the same number to both numbers of the subtraction problem to make the subtrahend a multiple of 10 (which is easy to subtract).

Examples: 74 – 28 = 76 – 30 = 46. 145 – 19 = 146 – 20 = 126.

Use this (new) strategy on the following:	
1.) Solve $x + 28 = 85$	2.) Bill notices that home to Springfield is 39 miles and home to Jordanville is 83 miles. How far is it from Springfield to Jordanville? (The towns are in a straight line and Springfield and Jordanville are both east of Bill's hometown.)
3.) $340 + (-27) =$	4.) At 9 am there was 45 ounces of chlorine in the tank. At 9 pm there was 18 ounces in the tank. How much chlorine was used that day?

Use any strategy you know on the following:	
5.) Solve $15 = x - 312 - 85$	6.) Evaluate $k + 28$ if $k = 66$
7.) Solve $300 = 88 + x$	8.) Find the perimeter of a triangle with side lengths 16 cm, 11 cm, and 12 cm.