Halve Any Even Number ≤ 100

Fact to Know Strategy

***When** to use this strategy:* Use this technique when you need to divide an even number by 2.
***How** to use this strategy:* You know that an even number divided by 2 will be a whole number. (a) If both digits are even used front end. Take half of each digit. (b) *If the ten's digit is odd*, then reduce it by 1 and take half to get the ten's digit of the answer. Then add 10 to the ones digit ("treat it like it's in the teens: 8 becomes 18") and take half of it.

Examples: 86 ÷ 2 = 43 36 ÷ 2 = 18 94 ÷ 2 = 47

Use this (new) strategy on the following:	
1.) Simplify $\frac{\sqrt{78}}{\sqrt{2}}$	2.) Mike's piano has 88 keys. He can reach 34 keys using both of his hands in one position. How many keys can he reach using only one hand?
3.) Evaluate $\frac{1}{2}x^2$ where x = 6	4.) $A_{Triangle} = \frac{1}{2}bh$ If b = 7 and h = 8, find the area.

Use any strategy you know on the following:	
5.) If $h(x) = 2x^2$, find $h(5)$.	6.) Solve $2.2x = 66$
7.) Solve $580 = 20x$	8.) Simplify the fraction $\frac{31x}{310x^2}$

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