

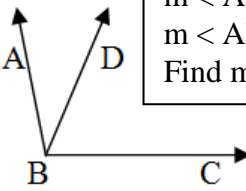
## Part-Part-Whole on 100

### Mental Math Strategy

**When to use this strategy:** Use this technique when subtracting from 100.

**How to use this strategy:** There are a few different approaches that all work well. a) Use adding on, like making change for a dollar, b) Use the property the two ‘parts’ have, which is that the ones (right-hand) digits add to 10 and the tens (left-hand) digits add to 9 (e.g.,  $87+13$ ). Like almost everything, the more you practice, the easier it gets.

*Examples:*  $100 - 61 = 39$        $100 - 30 = 70$        $100 - 46 = 44$

Use this (new) strategy on the following:	
1.) Solve the equation $100 - x = 45$	2.) As the new zoo keeper, it's your job to feed the animals. Of the 100 animals there, you have already feed 72. How many more do you need to feed?
3.) If the probability of success is .19, what is the probability of failure?	4.)  <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-left: 10px;">m &lt; ABC = <math>100^\circ</math> m &lt; ABD = <math>35^\circ</math> Find m &lt; DBC</div>

Use any strategy you know on the following:	
5.) Simplify: $\frac{60x^2}{180x^3}$	6.) Estimate the value of: $rs$ , if $r = 307$ and $s = 298$ .
7.) Solve the equation $62 - x = 100$	8.) If \$81.50 is spent for gasoline over a 5-day week of commuting, what is the average cost of gas per day?