

Compatible Numbers for Addition

Mental Math Strategy

When to use this strategy: Use this strategy when you have many numbers to add and there are numbers that are compatible.

How to use this strategy: Look for pairs of numbers that are “compatible” and combine them. Often you are trying to get to 10 (or 20, 30, etc.) because these are easy to add. This strategy is using the commutative (to re-order) and associative (to group) properties.

Examples: $9 + 6 + 7 + 1 + 4 = (9+1) + (6+4) + 7 = 10+10+7 = 28$

$3 + 16 + 7 + 8 + 4 = 10+20+8 = 38$

Use this (new) strategy on the following:	
1.) Solve for d , $93 + 28 = d - 7$	2.) Four friends went to the hair salon. Lisa’s haircut cost \$17.00, Mike’s cost \$14.00, Roger’s cost \$16.00 and Rachel’s only cost \$13.00. What was the total cost of all the haircuts?
3.) At the concession stand popcorn is 75¢, pizza is \$1.50, and pop is \$1.25. What’s the total cost?	4.) Simplify $56x + 5x + 17x + 24x + 15x$

Use any strategy you know on the following:	
5.) Evaluate $\frac{145}{1000} + \frac{232}{1000} + \frac{602}{1000}$	6.) Palo wants to buy two books costing \$12.00 each. How much will his total purchase cost?
7.) The point (18, ___) is one the line $y = 100x$. Fill in the blank.	8.) A quadrilateral has side lengths of 9, 10, 5, and 11 cm. What’s the perimeter?