

A More General Problem Classification System

Operations	Examples
Addition	
Combining	Kathy has 4 pencils and Ronda has 6 pencils. If they put all of the pencils side by side, how many total pencils do they have?
Increasing	Sarah has 3 cookies. She received 6 more cookies from a friend. How many cookies does Sarah now have?
Subtraction	
Take-Away	Marsha had 6 dog biscuits. Scooter stole 4 biscuits when Marsha wasn't looking. How many dog biscuits does Marsha have left?
Comparison	Charlotte has 14 erasers and Michael has 9 erasers. How many more erasers does Charlotte have?
Missing Addend	Jack has some pennies. He gave 12 pennies to his friend Lou and has 4 pennies left. How many pennies did Jack start with?
Multiplication	
Repeated Addition	If Sam learns 5 vocabulary words per day, how many words does he learn in 6 days?
Rectangular Area	Peonies are planted in 4 rows with 3 plants in each row. How many peonies are there?
Cartesian Product (pairing)	A local calendar store has 7 different dog calendars, 8 different cat calendars, 4 different Chicago calendars and 3 different Sesame Street Calendars. If you plan to buy one calendar from each group, how many combinations of are possible?
Division	
Repeated Subtraction	Individual cereal boxes contain 2 ounces of cereal. How many cereal boxes can be filled with 600 ounces of cereal?
Partition	Carla shipped 192,600 bushels of wheat in 9 railroad cars. How much wheat was shipped in each car?
Missing Factor	Jason earns \$7 per hour. If he wants to earn \$84 during one shift, how many hours must he work?