

VDOE Curriculum Framework

GRADE 5: COMMON MULTIPLICATION AND DIVISION PROBLEM TYPES		
Equal Group Problems		
Whole Unknown (Multiplication)	Size of Groups Unknown (Partitive Division)	Number of Groups Unknown (Measurement Division)
There are 25 boxes of crayons. Each box contains 96 crayons. How many crayons are there in all?	If 2,400 crayons are divided equally among 25 tubs, how many crayons will go into each tub?	If 2,400 crayons are placed into tubs with each tub containing 96 crayons, how many tubs can be filled?
Multiplicative Comparison Problems		
Result Unknown	Start Unknown	Comparison Factor Unknown
Tyrone traveled 125 miles last month. Jasmine traveled 15 times as many miles as Tyrone during the same month. How many miles did Jasmine travel?	Jasmine traveled 1,956 miles last summer. She traveled 12 times as many miles as Tyrone during the same summer. How many miles did Tyrone travel?	Jasmine traveled 1,275 miles in December. Tyrone traveled 85 miles in December. Jasmine travelled how many times more miles than Tyrone?
Array or Area Problems		
Whole Unknown	One Dimension Unknown	
There are 28 sections of parking lot at the stadium. There are 115 cars parked in each section of the parking lot at the stadium. How many cars are parked at the stadium all together? Mr. Myers's barn measures 35 feet by 110 feet. How many square feet are in the barn?	There are 3,220 cars parked at the stadium. The cars are divided evenly among each of the 28 sections of parking lot. How many cars are parked in each section? There are 3,220 cars parked at the stadium. There are exactly 115 cars parked in each section. How many sections are filled with cars? Mr. Myers' barn covers 3,850 square feet. The width of the barn is 35 feet. What is the length of the barn?	
COMBINATION PROBLEMS		
Outcomes Unknown	Factor Unknown	
An experiment involves tossing a coin and rolling a die. How many different outcomes are possible? Kelly has 2 pairs of pants and 3 shirts that can all be worn together. How many different outfits consisting of a pair of pants and a shirt does she have?	Mike bought some new shorts and shirts that can all be worn together. He has a total of 12 different outfits. If he bought 3 pairs of shorts, how many shirts did he buy?	

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GRADE 3: COMMON ADDITION AND SUBTRACTION PROBLEM TYPES		
Join (Result Unknown)	Join (Change Unknown)	Join (Start Unknown)
Sue had 214 sheets of paper. Alex gave her 95 more sheets of paper. How many sheets of paper does Sue have altogether?	Sue had 214 sheets of paper. Alex gave her some more sheets of paper. Now Sue has 309 sheets of paper. How many did Alex give her?	Sue had some sheets of paper. Alex gave her 95 more sheets of paper. Now Sue has 309 sheets of paper. How many sheets of paper did Sue have to start with?
Separate (Result Unknown)	Separate (Change Unknown)	Separate (Start Unknown)
Brooke had 145 marbles. She gave 26 marbles to Joe. How many marbles does Brooke have now?	Brooke had 145 marbles. She gave some to Joe. She has 119 marbles left. How many marbles did Brooke give to Joe?	Brooke had some marbles. She gave 26 to Joe. Now she has 119 marbles left. How many marbles did Brooke start with?
Part-Part-Whole (Whole Unknown)	Part-Part-Whole (One Part Unknown)	Part-Part-Whole (Both Parts Unknown)
There are 29 boys and 36 girls in the third grade at a school. How many boys and girls are in third grade in all?	There are 65 students in third grade. Twenty-nine of the students are boys, and the rest are girls. How many girls are in third grade?	There are 65 students in third grade. Some of the students are girls and some of the students are boys. How many students could be girls and how many students could be boys?
Compare (Difference Unknown)	Compare (Bigger Unknown)	Compare (Smaller Unknown)
Mr. Ross has 325 books. Mrs. King has 196 books. How many more books does Mr. Ross have than Mrs. King? Mr. Ross has 325 books. Mrs. King has 196 books. How many fewer books does Mrs. King have than Mr. Ross?	Mrs. King has 196 books. Mr. Ross has 129 more books than Mrs. King. How many books does Mr. Ross have? Mrs. King has 129 fewer books than Mr. Ross. Mrs. King has 196 books. How many books does Mr. Ross have?	Mr. Ross has 129 more books than Mrs. King. Mr. Ross has 325 books. How many books does Mrs. King have? Mrs. King has 129 fewer books than Mr. Ross. Mr. Ross has 325 books. How many books does Mrs. King have?