Content Standard		MAFS.4.OA Operations and Algebraic Thinking		
		MAFS.4.OA.1 Use the four operations with whole numbers to solve problems.		
		MAFS.4.OA.1.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.		
Assessment Limits		Whole numbers. Multiplication of numbers of up to four digits by a one-digit number or of two numbers with two digits. Quotients and remainders with up to four-digit dividends and one-digit divisors. Items may contain a maximum of 3 steps. Problems involving remainders should require the student to interpret and use the remainder with respect to context.		
		Variables must be represented by a letter.		
Calculator		No		
Acceptable		Equation Response		
Response		Natural Language Response		
Mechanisms		Multiple Choice Response		
		Multi-Select Response		
Context	text Required			
Example				
Context	Use some numbers that make the operations more difficult:			
	Addition – several carryings			
Subtraction – several borrowings				
• Multipli 7, 8)		Aultiplication – use some easier factors (1, 2, 3, 5) and some more difficult factors (4, 6, 8)		
• C		Division – either use zero as a digit in the quotient or use 4, 6, 7, 8 or 9 as the divisor Partial information with a final value can be given, but the calculations should be easy to complete.		

Use numbers that make the four operations easier: Context easier Addition – no carrying Subtraction – no borrowing • Multiplication – use 1, 2, 3, 5 as the factors in each partial multiplication Division – use 2, 3, and 5 for the divisor; no remainders All information is given in a straightforward manner. Context Use numbers that make the four operations more difficult: more difficult Addition – multiple carryings Subtraction – multiple borrowings Multiplication – use 4, 6, 7, 8 as factors and minimize 2, 3, 5 as factors in each partial multiplication Division – have zero be a digit in the quotient and use 4, 6, 7, 8, 9 as the divisor; allow for remainders Partial information with a final value is given, and the student needs to work backwards to find a solution. Response Mechanism Notes, Comments Sample Item Stem Jack bought 2 umbrellas, each costing **Equation Response** \$13. He bought 3 hats, each costing \$4. How much did Jack spend in all? Jack bought 2 umbrellas and 3 hats for **Equation Response** \$18.00. Each umbrella costs the same amount. Each hat costs the same amount. The price of a hat is \$4.00. What is the cost of 1 umbrella? Jack bought 3 umbrellas and 4 hats. The **Equation Response** umbrellas cost \$15 dollars each, and the hats cost \$5 each. Write an equation to show the total cost c, in dollars, of the items Jack bought. Jack has \$53, and each umbrella costs Natural Language \$12. He writes the equation shown. Response $53 \div 12 = 4 R 5$ What does the number 5 represent in terms of Jack's money? Jack wants to buy the same number of **Equation Response** hats for 3 of his friends. He has \$57 dollars, and each hat costs \$5. What is the largest number of hats that Jack buys for each friend?

Grade 4 Mathematics Item Specifications Florida Standards Assessments

Jack bought 2 umbrellas and 3 hats and	Equation Response	
spent between \$30 and \$50. Each		
umbrella costs the same amount. Each		
hat costs the same amount. The price of a		
hat is \$4.00. What is the least amount		
Jack could have spent on an umbrella?		
What is the most Jack could have spent		
on an umbrella?		