**Grade 7 Bella’s Gardening Materials – Training Set 1 Annotations**

**T1-1 Score 3**

Part A: The student provided a correct expression (*1.24g + 0.87m + 0.98z*) by multiplying each term inside the parentheses by $\frac{1}{2}$. [1 point]

Part B: The student provided an incorrect answer in the form of an equation (*29.68 – x +14.45 = y*). Although the expression contained on the left-hand side of the equation is correct, no credit is awarded because the expression is embedded in an equation. [0 points]

Part C: The student provided 3 correct and complete explanations (*a = the amount of times Bella went to yard Depot, b = the cost of each pair of gardening gloves, c = the cost of the gardening hat*). [2 points]

**T1-2 Score 2**

Part A: The student provided an incorrect answer in the form of an equation $\left(\frac{1}{2}·6.18=3.09\right)$. The student added 2.48 + 1.74 + 1.96 and found a sum of 6.08 without regard to the variables. [0 points]

Part B: The student provided a correct expression [*($29.68 – x) + 14.45*] by subtracting the value of the coupon (*x*) from the price of the hose (29.68) and then adding the price of the shovel (14.45). [1 point]

Part C: The student provided 2 correct and complete explanations (*A means each time she was at Yard Depot; B means price of a pair of gardening gloves*). The explanation provided for *c* (*c means the gardening hat*) is insufficient for credit as the explanation does not state that *c* is the “cost” of one hat. [1 point]

**T1-3 Score 1**

Part A: The student provided a correct expression $\left(\frac{2.48g+1.74m+1.96z}{2}\right) $by distributing $\frac{1}{2} $to each term inside the parentheses. [1 point]

Part B: The student provided an incorrect expression $\left(\frac{29.68}{x}+14.45\right)$. [0 points]

Part C: The student did not provide any correct explanations. Although the student has a correct explanation for *a* (*the amount of times she went to Yard Depot*) and remarks that otherwise the variables represent the cost of each item, none of the explanations was clearly associated with a variable so the explanation did not earn credit. [0 points]

**T1-4 Score 0**

Part A: The student provided an incorrect expression (*0.5 · 2.48g + 1.79m + 1.96z*). The student did not multiply 1.79m or 1.96z by 0.5. [0 points]

Part B: The student provided an incorrect expression (*29.68 – x – 14.45 =* ). [0 points]

Part C: The student did not provide any correct explanations. [0 points]

**T1-5 Score 4**

Part A: The student provided a correct expression (*1.24g + 0.87m + 0.98z*) by multiplying each term inside the parentheses by $\frac{1}{2}$. [1 point]

Part B: The student provided a correct expression ($*44.13 – x*) by adding the price of the hose to the price of the shovel (29.68 + 14.45 = 44.13) and subtracting the value of the coupon (*x*). [1 point]

Part C: The student provided 3 correct and complete explanations (*a is how many times Bella went to Yard Depot, b is how much each pair of gardening gloves costs, c is how much the gardening hat costs*). [2 points]

**T1-6 Score 1**

Part A: The student provided an incorrect expression $\left(2.48g+1.74+1.96·\frac{1}{2}\right)$. The student did not multiply 2.48g or 1.74m by $\frac{1}{2}$. Additionally, the variables *m* and *z* are missing. [0 points]

Part B: The student provided a correct expression (*29.68 + 14.45 – x*) by adding the price of the hose (29.68) to the price of the shovel (14.45) and subtracting the value of the coupon (*x*). [1 point]

Part C: The student did not provide any correct explanations. [0 points]

**T1-7 Score 2**

Part A: The student provided a correct expression$\left(\frac{1}{2}·2.48·g+\frac{1}{2}·1.74·m+\frac{1}{2}·1.96·z\right)$ by multiplying each term inside the parentheses by $\frac{1}{2}$. [1 point]

Part B: The student provided a correct expression (*29.68 – x + 14.45*) by subtracting the value of the coupon (*x*) from the price of the hose (29.68) and then adding the price of the shovel (14.45). [1 point]

Part C: The student did not provide any correct explanations. [0 points]

**T1-8 Score 3**

Part A: The student provided a correct expression $\left(\frac{2.48g}{2}+\frac{1.74m}{2}+\frac{1.96z}{2}\right) $by distributing the $\frac{1}{2} $to each term inside the parentheses. [1 point]

Part B: The student provided a correct expression [*($29.68 – x) + $14.45*] by subtracting the value of the coupon (*x*) from the price of the hose (29.68) and then adding the price of the shovel (14.45). [1 point]

Part C: The student provided 2 correct and complete explanations *(“a” stands for how many times Bella went to Yard Depot, “c” stands for the cost of the one gardening hat*). The explanation provided for *b* (*the price for the pairs of gardening gloves*) is insufficient for credit as the explanation does not clearly state that *b* is the cost of “each” pair of gloves. [1 point]

**T1-9 Score 1 MU (Minimal Understanding)**

Part A: The student provided an incorrect answer in the form of an equation (*1.24g + .87m + .98z = x*). Although the expression contained on the left-hand side of the equation is correct, no credit is awarded because the expression is embedded in an equation. [0 points]

Part B: The student did not provide a correct expression. [0 points]

Part C: The student did not provide any correct explanations. [0 points]

No credit has been awarded in any part. However, the student demonstrated minimal understanding of representing expressions in equivalent forms. Credit is awarded for minimal understanding in Part A for the equation that contains the correct expression (*1.24g + 0.87m + 0.98z = x*).

**T1-10 Score 3**

Part A: The student provided a correct expression (*2.48 × g × .5 + 1.74 × m × .5 + 1.96 × z × .5*) by multiplying each term inside the parentheses by .5. [1 point]

Part B: The student provided a correct expression [*($29.68 – x) + $14.45*] by subtracting the value of the coupon (*x*) from the price of the hose (29.68) and then adding the price of the shovel (14.45). [1 point]

Part C: The student provided 2 correct and complete explanations *(a is the number of times Bella went to Yard Depot, c is the price of the gardening hat*). The explanation provided for *b* (*b is the price of the gardening gloves*) is insufficient for credit as the explanation does not clearly state that *b* is the cost of “each” pair of gloves. [1 point]