

PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 7 Math

Bella's Gardening Materials

Handscoring Practice Set 2*

*Responses in this set do not have true scores. Apply scores based on scoring criteria.



73. Bella bought gardening materials from different stores.

At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$0.5 \times 2.48g + 1.74m + 1.96z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$29.68 - x + 14.45$$

T

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

$a = \text{money}$

$b = \text{hat}$

$y = \text{number of gloves}$

$c = \text{gloves}$

F

73. Bella bought gardening materials from different stores.

At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$1.24g + 0.87m + 0.98z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$14.45 + 29.68 - x$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a = how many times Bella was there

b = cost of each pair of gloves

c = garden hat cost

a is the amount of times Bella was at the stores, and I know this because it is multiplying all of the costs. b is the cost of each pair of gloves because it is multiplying by the pairs of gloves. c is the garden hat cost because it is what she also bought.

F

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At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$0.18gmz?$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$\$44.13$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a , b , and c are "factors" for the total cost of the purchase.



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$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$1.24g + 0.87m + 0.98z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$(29.68 - x) + 14.45$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a = how many times Bella went to Yard Depot.

b = How many pairs of gardening gloves she bought.

c = a gardening hat.

F

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At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$1.24g + 0.87m + 0.98z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$\$29.68 - x + \$14.45$$

F

73. *Continued.* Please refer to the previous page for task explanation

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

$$\underset{\text{A}}{A} \cdot (\underset{\text{B}}{B} \cdot \underset{\text{C}}{C} + \underset{\text{C}}{C})$$

C: Explain what a , b , and c each mean in terms of the situation.

A means Amount to be paid

B means Bunches of Gloves

C means Flowers to plant

F

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At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$\frac{1}{2} \cdot 2.48g + \frac{1}{2} \cdot 1.74m + \frac{1}{2} \cdot 1.96z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$(29.68 - x) + 14.45$$



73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

- C. Explain what a , b , and c each mean in terms of the situation.

In the terms of the situation, a stands ^{for} how many times Bella went to Yard Depot, b stands for how much money each pair of gloves were, and c stands for how much the gardening hat costs. I figured out a stood for the times she went because after you add how much everything was, the items in the parentheses $()$, you need to multiply it by how many times she went. For variable b I figured out that since you didn't know how much each pair of gloves were (y) you would need to multiply the cost of one set by how many sets she bought. Lastly, I found out what c was because since she only bought one gardening hat, per trip, there would only be one price. Plus to find the total price of everything you would need the price of the hat, so c was the only choice.



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$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$\frac{1}{2} \cdot 2.48g + \frac{1}{2} \cdot 1.74m + \frac{1}{2} \cdot 1.96z$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$\$29.68 - x + \$14.45$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

In this situation " a " would represent how many times Bella went to Yard Depot. " b " would represent the gardening hat and gardening gloves lastly, " c " would represent the cost of the gardening hat and gloves bought. If you were to solve this equation, you could figure out how much Bella spent and Yard Depot.



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$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$2.48 + 1.74 + 1.96 \div \frac{1}{2}$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$\$29.68 - x + \$14.45$$



73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a = she went
 b = she bought
 y = pairs of gardening gloves
 c = she spent

F

73. Bella bought gardening materials from different stores.

At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

$$2.48g * \frac{1}{2} + 1.74m * \frac{1}{2} + 1.96z * \frac{1}{2}$$

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$(\$29.68 - x) + \$14.45$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a stands for the amount of times Bella went to Yard Depot.

b stands for the price of the gardening gloves.

c stands for the price of the gardening hat.

F

73. Bella bought gardening materials from different stores.

At Garden Mart, Bella bought g packets of geranium seeds, m packets of marigold seeds, and z packets of zinnia seeds. All of the plant seeds were on sale for half price. The expression shown below represents the total cost of the plant seeds Bella bought.

$$\frac{1}{2}(2.48g + 1.74m + 1.96z)$$

- A. Write an expression without parentheses that also represents Bella's total cost at Garden Mart.

\swarrow half price

$$6.22 \div 2 = \$3.11$$

total cost of all seeds.

At Plant World, Bella bought a hose and a shovel. The hose was priced at \$29.68, but Bella had a coupon for x dollars off. The price of the shovel was \$14.45.

- B. Write an expression to represent how much money, in dollars, Bella spent at Plant World.

$$\$14.45 + (\$29.68 - x) = \text{total money spent}$$

F

73. *Continued.* Please refer to the previous page for task explanation.

Bella went to Yard Depot multiple times. Each time she was there, Bella bought a gardening hat and y pairs of gardening gloves. The expression shown below represents the total amount of money, in dollars, Bella spent at Yard Depot.

$$a(by + c)$$

C. Explain what a , b , and c each mean in terms of the situation.

a means how many times she was at Yard Depot. b stands for the price of the gardening gloves, and c stands for the gardening hat.

PSSA Math: Bella's Gardening Materials (Grade 7); Practice Set 2

PRACTICE SET 2*

Subject: Math Item: Bella's Gardening Materials Grade:7

Name _____

Number	Score	Consensus	Notes
P2-1			
P2-2			
P2-3			
P2-4			
P2-5			
P2-6			
P2-7			
P2-8			
P2-9			
P2-10			

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