

PSSA and Keystone Exams
Summer 2023 Workshops

PSSA, Grade 7 Math

Bella's Gardening Materials

Handscoring
Training Set 2

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.

$$29.68 + 14.45 - x$$

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 = The amount of times Bella went to Yard Depot

b = The price for one pair of gardening gloves

c = The price for one gardening hat

T

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.

$$\begin{array}{c} \times \\ \frac{1}{2}(2.48g + 1.74m + 1.96z) \end{array}$$

- 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.

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

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 equation:

A means how many times she went to Yard Depot.

B means how many gloves come in each pack of gloves.

C means how many hats she bought.

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.

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

$$= 6.68$$

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.

$$50 + 2.48 + 1.74 + 1.96 = \$56.18$$

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.

B , and C mean how much money she spent at the store and A is how much money she had.

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.

$$(29.68 + 14.45) - x$$

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.

I think y is how many gardening gloves.

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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.

$$2.48g + 1.74m + 1.96z \times .5$$

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.

$$29.68 + 14.45 - x = \text{Total Cost}$$



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.

The A would be the total number of times she was there. The B would be the cost for the y pairs of gardening gloves. And C would be the garden hat that she buys every time.

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.

$$2.48g + 1.74m + 1.96z \div 2$$

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.

The Letters a , b , and c each mean that they are a variable. A variable is a letter that stands for a number if you do not have an answer for how many items you have bought. You can figure out what the number should be that the variable is standing for by using Addition, Multiplication, subtraction, and division to find the correct answer for the variable.

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.

$$2.48 \quad 1.74 \quad 1.96$$
$$1.24g + 0.87m + 0.98z$$

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.

$$29.68 - x + 14.45$$



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 she went to the store.

b stands for the price of the gloves

c stands for the price of the hat.



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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.

$$29.68 - 14.45 = 15.23$$

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 is the money.

B is the hat.

C is how many times she went.

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.

$$3.09gmz$$

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.

$$44.13 - x$$

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, B, and C each mean something in the equation. A means how many times Bella went to Yard Depot. B means the cost of the gardening gloves. C means the cost of the gardening hat. In conclusion, A, B, and C each mean something in the equation.

1

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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.

$$\left(\frac{29.68}{x} \right) + 14.45 = m(\$)$$

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 the equation a is the total number of times Bella went to Yard Depot. b is the price of one pair of gardening gloves. Lastly, c is the price of the gardening hat. When these are plugged into the equation, one can solve it and find the total amount of money Bella spent at Yard Depot.

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

Subject: Math

Item: Bella's Gardening Materials

Grade: 7

Name _____

Number	Score	Notes
T2-1		
T2-2		
T2-3		
T2-4		
T2-5		
T2-6		
T2-7		
T2-8		
T2-9		
T2-10		