Training Header Sheet with Change Log Form

Kentucky Math Operational

Grade 5/Math 3 Times the Sum of 5 and 8 MA0520109

Anchor Set

Date	Comments	Version
2.2022	Initial Operational Training Set	Set A

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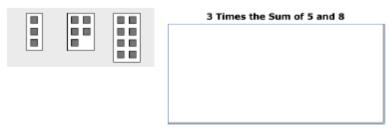
Prompt

MA0520109

Part A

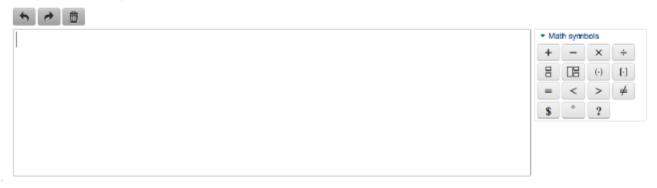
Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.



Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A. Enter your expression and your explanation in the space provided.



Rubric

MA0520109

Rubric

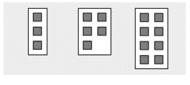
The total item score is the sum of the points awarded in the Machine-scored and Human-scored parts.

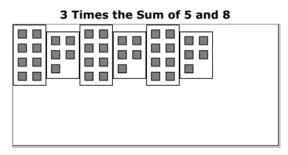
parts.			
Machine Scoring			
Score Point 1	Part A Student response is 3 groups of 8 and 3 groups of 5 shown in the box.		
Score Point 0 Student response is incorrect.			
Human Scoring			
Score Point 1	Student demonstrates a complete understanding of writing a simple expression with numbers and interpreting the numerical expression without evaluating them.		
Score Point 0	Student response is insufficient to demonstrate a grade-appropriate, relevant understanding of the task.		
Score Point	 Score 1 point: Human-scored Correct expression with complete explanation Score 0.5 point: Correct expression OR Complete explanation 		
Correct Answer	Part B The expression 3(5 + 8) represents 3 times the sum of 5 and 8. Both my expression and my model shows that there are 3 groups of 8 and 3 groups of 5, which is the same as 3 groups of 13. Note: Other correct explanations are acceptable.		

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

Expression: 3 imes (5+8)

My expression $[3 \times (5+8)]$ compares to the model in part A in how the model shows 5, then 8, 3 times. If you were to solve it, it would be 39.

$$3 \times (5 + 8)$$

$$3 \times 13 = 39$$

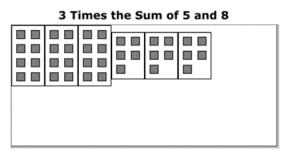
If you were to add everything in the model, you would also get 39. Although you would be adding, not multiplying, multiplication IS only a shorter way of adding reapeatedly. So all in all, if you were to solve these equasions they would be exactly the same even if they are expressed differently.

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

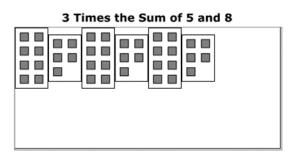
 $3 \times (5+8)$ My expression compares to the modle I created in part A by I put eight three times and five three times.

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

$$3 imes (5+8)$$

My expression compares to the model I used in Part A because 5+8=13. By putting 3 groupings of 13, I showed that $3 \times (5+8)$ equals 39.

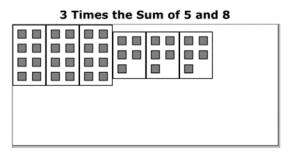
Part B: Score: 0.5

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

$$3+5\times 3=39$$

In my model in part A I put 3 eights and 3 fives to show the anwser 39 and in model B I wrote the equation and got 39.

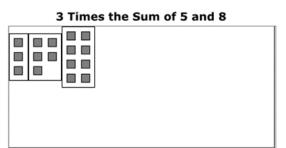
Part B: Score: 0.5

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

 $3 \times (5+8)$ This compares to my model because my model showes 1 group of 3 one group of 5 ad one group of 8. That's how my model compares to my expression.

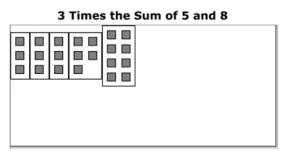
Part B: Score: 0

Part A

Create a model that can be used to represent the value of 3 times the sum of 5 and 8.

Drag and drop the appropriate number of groupings into the box to create your model. Each grouping may be used once, more than once, or not at all.





Part B

Write an expression that can be used to represent "3 times the sum of 5 and 8." Explain how your expression compares to the model you created in Part A.

Enter your expression and your explanation in the space provided.

 $3 \times 5 + 8$