

Name: _____

Date: _____

Alex has three boxes of crayons that she got for her birthday. One box has 48 crayons in it. Another box has 32 glitter crayons in it. The third box has 12 neon crayons in it.

PART A

How many crayons does Alex have in all? Use strategies of place value, properties of operations, and/or models to explain your response.



Show your work and enter your answer in the space provided.

PART B

After using the crayons for a week, Alex realized she lost 13 crayons and broke 5 crayons. Her friend Matt tells Alex she now has 70 crayons left. Is Matt right or wrong? Show your work or explain your answer.



Enter your answers and explanation in the space provided.

ANSWER KEY

Rubric Part A	
Score	Description
2	<p>Student response includes the following component:</p> <ul style="list-style-type: none"> • Computation component = 1 point <ul style="list-style-type: none"> ○ Correct answer, 92 crayons. • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student explains how they solved by showing the decomposing of numbers. <p>Sample Student Response:</p> <p>“Alex has 92 crayons because $40+30+10= 80$ $8+ 2 + 2 = 12$. $12+ 80= 92$”</p> <p>Other explanations are possible.</p>
1	Student response includes 1 of the above elements
0	Student response is incorrect or irrelevant.
Rubric Part B	
Score	Description
2	<p>Student response includes the following components:</p> <ul style="list-style-type: none"> • Computation component = 1 point <ul style="list-style-type: none"> ○ Correct answer, Matt is wrong. • Reasoning component = 1 point <ul style="list-style-type: none"> ○ The student explains Alex does not have 70 crayons left. <p>Sample Student Response:</p> <p>“Matt is wrong because Alex has 74 crayons left. She started with 92 crayons and she lost 13 and broke 5. That means she no longer has those crayons so she has to subtract. $92 - 18 - 5 = 74$. Matt said she only had 70 crayons left, but she has 74.”</p>
1	Student response includes 1 of the above elements.
0	Student response is incorrect or irrelevant.

Glow	Grow