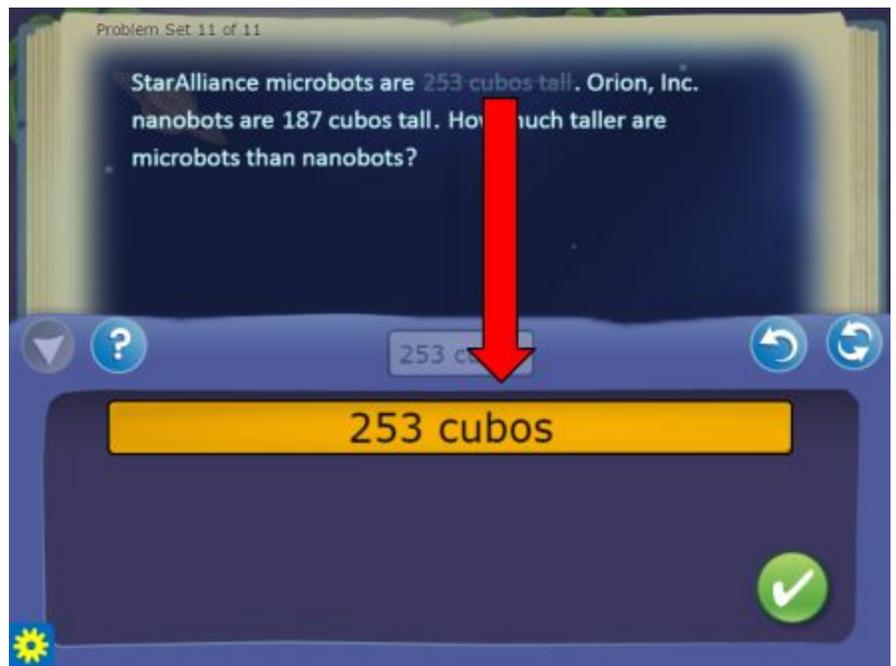


Riddle Books Step Guide

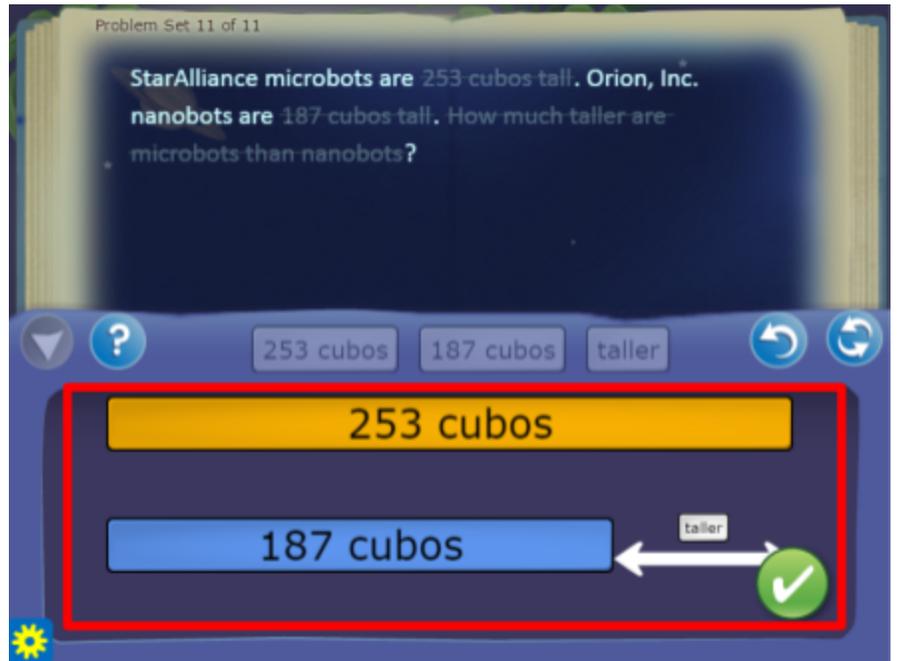
In Riddle Books, players progress through seven categories of increasingly challenging word problems. The categories are basic addition, basic subtraction, basic multiplication/division, multiplication/division combined with addition/subtraction (i.e. problems with multiple operators), problems with multiple variables, basic fractions, and fractions with multiple operators. Each category consists of sets of individual word problems. When players successfully complete a category, they advance to the next one. Players who are not successful continue to receive additional problems in the current category until they succeed.

1) Read the text carefully and identify the important terms: numbers and unknown values. Drag and drop the terms to the “model-building area” to convert them into draggable cards.

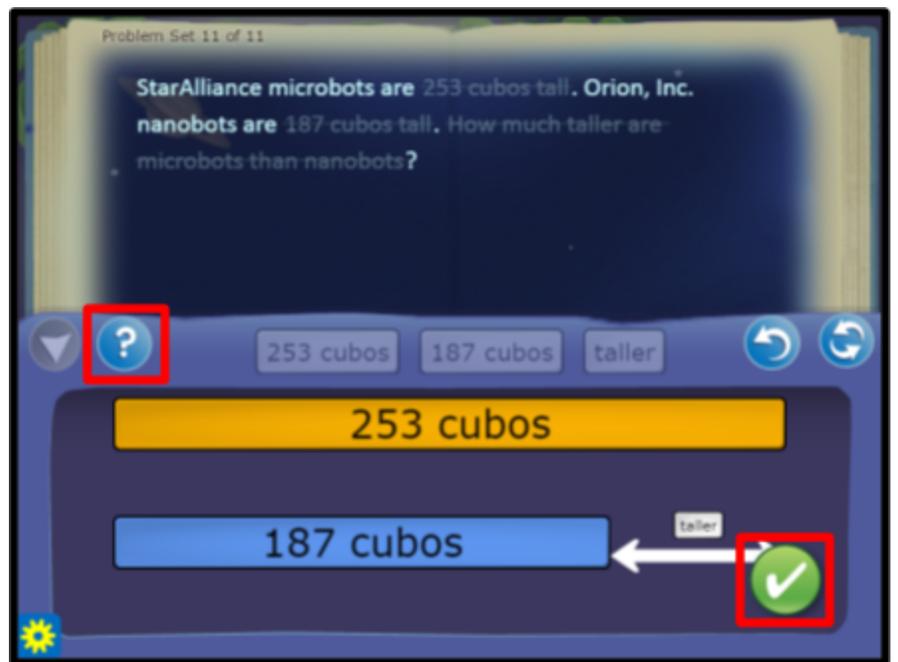


2) Build a visual model of the problem by creating blocks and labels of the identified terms, and dragging and dropping into the model-building area.

Some of the tutorial levels demonstrate steps students can use to construct a model for new and increasingly challenging problem types.



3) After building a model, click Submit. A correct model must include all the important terms in a way that expresses the same information as the text. If the answer is not accepted, modify the model and try again. For hints, click the the ? button at any point while building the model.



4) Construct the final equation by dragging the cards that make up the equation from the visual model and dropping them into the equation-building area.

The screenshot shows a math problem-solving interface. At the top, it says "Problem Set 11 of 11". Below that are three cards: "253 cubos", "187 cubos", and "taller". The visual model consists of a yellow bar labeled "253 cubos" and a blue bar labeled "187 cubos" with a double-headed arrow labeled "taller" to its right. Below the visual model is an equation-building area with a red border. It contains three cards: "253 cubos", "187 cubos", and "taller", along with an equals sign "=" card. Below the equation-building area is a hint: "253 minus 187 is equal to cubos taller".

5) To check the equation, click the Submit button. If the equation is not accepted, make changes and try again. Remember to ? for hints.

The level is complete when the equation is correct. Then, advance to a score summary screen.

This screenshot is identical to the one above, but the equals sign "=" card in the equation-building area is highlighted with a red square, indicating it is the submit button.