

≡ **Item Navigation** **🎉 Congratulations! You passed!**

Grade received 100%

To pass 80% or higher

Solving systems of linear equations

Practice Quiz • 30 min **Go to next item**

✓ Submit your assignment

1 Try again

You are an astronaut on a mission to planet Mars. Using two robotic spacecraft, the Perseverance and Curiosity rovers, your mission is to collect rock samples to bring back to Earth to determine if there is life on the red planet. As a trained astronaut, you know that each rover has a weight limit for samples.

1 / 1 point

✓ Receive grade

You split the rocks between the two rovers. You first place 2 basalt samples (volcanic rock) and 3 meteorite rocks to Perseverance that weigh 15 grams in total.

Your grade

100%

You then put 2 basalt samples and 4 meteorites to Curiosity that weigh 16 grams in total. Your goal is to determine how much each sample weighs (b for basalt, m for meteorite). You know that the collected samples are all the same size and shape, so all basalt samples will have the same weight, just as all meteorite samples will have identical weight.

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