



Back

Matrices

coursera

Graded Quiz • 30 min

Due Mar 19, 11:59 PM GMT

Menu

✔ Congratulations! You passed!

Grade received 90%

Matrices

Latest Submission Grade 90%

Quiz • 30 min

To pass 80% or higher

✔ Go to next item

Submit your assignment

Due Mar 19, 11:59 PM GMT

Resume assignment

1. On your next mission, while collecting rock samples, you observe a new crystal structure containing carbon, which could be key to life! You utilize the third 1 / 1 point

✔ Receive grade spacecraft. Ingenuity, and meticulously collect enough rock samples to distribute within the weight limits of each spacecraft.

To Pass 80% or higher

You place 2 basalt samples, 1 meteorite, and 5 crystal rock samples into the Perseverance rover, which all weigh 20 grams.

Your grade

90% You then distribute 1 basalt, 2 meteorites, and 1 crystal into the Curiosity rover, with a weight of 10 grams in total.

View Feedback lastly, you place 2 basalt samples, 1 meteorite, and 3 crystals to Ingenuity, which together weigh 15 grams. Each rock sample is represented with variables b for basalt, m for meteorite, and c for crystal structures.

We keep your highest score

Which of the following systems of equations represents the correct information in the above system of sentences?

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$$\begin{cases} 2b + m + 5 = 20 \\ b + 2m + c = 10 \end{cases}$$



$$\begin{cases} m + 2b + 5 = 20 \\ 2b + m + c = 10 \\ b + 2m + 3c = 15 \end{cases}$$



$$\begin{cases} 2b + m + 5 = 20 \\ b + 2m + c = 10 \end{cases}$$