

Tinkerbelle was attempting to make a foam pit for the fairy festival. She wanted the pit to be 15 meters long and 37 meters wide with a volume of 1665 cubic meters. What is the height of the ball pit?

Tinkerbelle is now ready to add the tiny foam blocks. If the tiny foam blocks have a volume of two cubic centimeters, how many of them can fit in the pit?

What are the dimensions of the tiny foam blocks?

If Tinkerbelle and some other friends were playing in the pit and each fairy requires three hundred and thirty-three cubic meters of space, how many fairies can be in the pit at a time?

Answer Key:

Part one: Height: 3 meters

Part two: 832,500,000 tiny foam blocks can fit in the pit.

Part three: Possible dimensions of the tiny foam blocks: (1cm, 1cm, 2cm) either order.

Part Four: 5 fairies can be in the pit at a time.

Special Note:

This problem was written by Abigail, a 5th Grade student at Eastside Elementary in response to a challenge asking them to write their own problem situations involving volume.