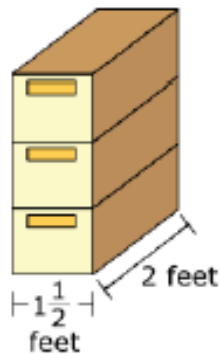


PARCC Assessment Item Illustrating 6.G.A.2

© ITEM ADAPTED WITH PERMISSION FROM THE PARCC GRADE 6 EOY TEST. AVAILABLE FROM [HTTPS://PRC.PARCCONLINE.ORG/ASSESSMENTS/PARCC-RELEASED-ITEMS/](https://prc.parcconline.org/assessments/parcc-released-items/) ACCESSED APRIL 2016. PLEASE REFER TO THE PARCC TERMS OF USE ([HTTPS://PRC.PARCCONLINE.ORG/CONTENT/TERMS-USE/](https://prc.parcconline.org/content/terms-use/)) OR CONTACT PARCC DIRECTLY FOR ADDITIONAL INFORMATION REGARDING THE USE OF THIS ITEM

Denzel has a stack of 3 identical storage boxes, as shown in the drawing. The volume of the stack of 3 storage boxes is $11\frac{1}{4}$ cubic feet.



What is the height, in feet, of one storage box?

Answer Key

$1\frac{1}{4}$, or equivalent

Elaboration on Alignment

The primary alignment for this item is to standard 6.G.A.2, a supporting standard in the Geometry domain. The major work of grade 6 on dividing fractions (6.NS.A.1) is a key part of the problem-solving strategy likely used by students to answer this question. Therefore, this item is a good illustration of how developers should use opportunities to connect to major and supporting standards. Students may also draw on knowledge and skills acquired as part of their work in the Expressions and Equations domain as an approach to this problem given the formulas used and the unknowns they are asked to find.

Learn More

Learn more about high-quality assessment items by visiting the [MATH Assessment Item Alignment Modules](http://www.achievethecore.org) at www.achievethecore.org.