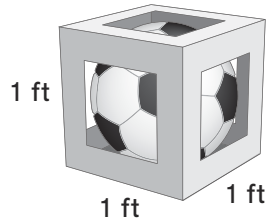




Unit 1 Open Response Assessment

Volume

Monica works at Super Sports Supplies and is packing a box of 30 soccer balls to send to a school. Each soccer ball is packaged in a box that measures 1 cubic foot in volume.



The volume of the box is
1 cubic foot.

Monica is placing the individual soccer ball boxes into a larger box to send to the school.

- ① What is the minimum volume of a box that Monica could use to send 30 soccer balls?
How do you know?



Unit 1 Open Response Assessment (continued)

- ② Monica began to fill a box with the soccer balls and then took a break. The picture below shows what the box looked like when she took her break. Will all 30 soccer balls fit in this box? How do you know?

