

Smarter Balanced Assessment Item Illustrating 5.NF.B.6

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Lola has 4 orange juice containers. Each container is $\frac{5}{8}$ full.

Lola claims to have a total of $2\frac{1}{2}$ gallons of orange juice in the 4 containers.

Which of these statements **must** be true in order for Lola's claim to be correct?

- (A) Each container has a capacity of $\frac{5}{8}$ gallon.
- (B) Each container has a capacity of 1 gallon.
- (C) Each container has a capacity of $2\frac{1}{2}$ gallons.
- (D) Each container has a capacity of 8 gallons.

Answer Key

B

Elaboration on Alignment

This example targets the part of Standard for Mathematical Practice (SMP) 3 that asks students to use stated assumptions, in this case identifying what assumption is needed for the stated claim to be true. The problem connects SMP 3 to the major work of the grade in the Number and Operations—Fractions domain as the basis for measuring this aspect of communicating reasoning.

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