PARCC Assessment Item Illustrating 7.RP.A.1

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Ruben put an empty cup underneath a leaking faucet. After $1\frac{1}{2}$ hours, Ruben had collected $\frac{1}{4}$ cup of water. What is the rate, in cups per hour, at which the water is leaking from the faucet?

- A. $\frac{1}{6}$
- B. $\frac{3}{8}$
- C. $\frac{8}{3}$
- D. $\frac{6}{1}$

Answer Key

A

Elaboration on Alignment

This is a straightforward problem in which students are expected to determine the unit rate associated with ratios of fractions as articulated in 7.RP.A.1. This item represents an uptick from students' work in grade 6 where the expectations for computing unit rates were limited to non-complex fractions.

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