Having Your Cake, and Drinking Too

12	Superior	+	•	Shows a pattern between positive and negative exponents, i.e. $2^{-2} = \frac{1}{2}$

- 10 Outstanding + Attempts to explain why a negative exponent means dividing by 2 a certain number of times. $2^{-3} = \frac{1}{2^3}$
- **9 Great** + For #2 & #3 shows the result of "eating cake and drinking beverage" as an exponential number in base 2.
- **8 Good** + Somehow equates negative exponents with shrinking the height.
- 7 Acceptable + Attempted to answer all 5 questions and shows a generalization for #4, 2^{e} $(\frac{1}{2})^{3} = 2^{e-3}$
- Poor attempt on everything, but recognizes that the exponent for the height multiplier is the difference between the number of ounces of cake and the number of ounces of beverage.
- Egregious errors! Missing basic ideas: the height stays the same when Alice eats and drinks the same amounts (#1); the exponent for the height multiplier is the difference between the number of ounces of cake and the number of ounces of beverage (#4).