Be sure to discuss to discuss Chung's statement, which is incorrect. Students may need to play out some examples to notice that it should be "For every $1 the eighth grade plans to raise, the seventh grade plans to raise $3." The numbers are reversed, which is a common error in writing ratio statements.

ACE

Assignment Guide for Problem 1.1

Applications: 1–2 | Connections: 35–40

Answers to Problem 1.1

A. All the claims are true except Chung's. Reasoning will vary. Check students' work.

B. Answers will vary. Possible answers: The eighth-grade goal is $\frac{1}{3}$ of the seventh-grade goal. For every $10 the 3 eighth graders plan to raise, the seventh graders plan to raise $30. The seventh-grade goal is $300 more than the eighth-grade goal.

C. The teachers' goal is $360. One way to know this is that the teachers' goal is more than each of the two grades ($210 more than one grade, and for every $60 the teachers plan to raise, one grade is raising only $50). That means the teachers' goal is less than the seventh-grade goal; in fact it is $\frac{4}{5}$ of the seventh-grade goal. Four-fifths of $450 is $360.