

Homework 7

1. Consider the following Equal Sharing problem:
3 children want to share 5 brownies so that each child gets the same amount. How much brownie should each child get?
Nellie answers that each child should get “five-thirds”, while Hayley says that each child should get “five-fifteenths”.
 - a. Explain how one can view the problem so that Nellie is correct.
(Hint: consider what Nellie means by “thirds”.)
 - b. Explain how one can view the problem so that Hayley is correct.
(Hint: consider what Hayley means by “fifteenths”.)
 - c. If the unit in the problem is one brownie, which one of them is correct? Why?
2. Equal Sharing problems can be separated into two categories: answer more than 1 and answer less than one. Write two Equal Sharing problems – one for each category, and identify which category it belongs to. Which problem do you think will be more difficult for a student who is just starting to learn fractions? Why?
3. **IMAP Video 14 – Felisha**
Before Watching the Video
 - a. Solve the following problem in two ways:
Five children want to share two cookies fairly. How much cookie will each person get?**After Watching the Video**
 - b. How could “one-fifth” be correct for the amount each person gets when 5 people equally share two cookies?
 - c. How could “two-tenths” be a correct answer?
 - d. What mathematical issue did this clip bring up? (That is, what did you learn from this clip that might be a potential source of confusion for your students?) How could you clarify the issue for your students?
4. **Textbook Section 6.2 (p. 232)**
2, 3a/c, 4a/b/d, 5(do not worry about decimal answers), 11
5. **Textbook Section 2.1 (p. 42)**
1, 2