### Lesson 8 Practice Problems

* 1. Draw a diagram of and a diagram of when is 1.
  + 
  1. Draw a diagram of and of when is 2.
  + 
  1. Draw a diagram of and of when is 3.
  + 
  1. Draw a diagram of and of when is 4.
  + 
  1. When are and equal? When are they not equal? Use your diagrams to explain.
  2. Do and have the same value when is 5?
  3. Are and equivalent expressions? Explain your reasoning.
  4. Check that and have the same value when is 1, 2, and 3.
  5. Do and have the same value for all values of ? Explain your reasoning.
  6. Are and equivalent expressions?

1. 80% of is equal to 100.
   1. Write an equation that shows the relationship of 80%, , and 100.
   2. Use your equation to find .

* (From Unit 6, Lesson 7.)

1. For each story problem, write an equation to represent the problem and then solve the equation. Be sure to explain the meaning of any variables you use.
   1. Jada’s dog was inches tall when it was a puppy. Now her dog is inches taller than that. How tall is Jada’s dog now?
   2. Lin picked pounds of apples, which was 3 times the weight of the apples Andre picked. How many pounds of apples did Andre pick?

* (From Unit 6, Lesson 5.)

1. Find these products.

* (From Unit 5, Lesson 8.)

1. Calculate using a method of your choice. Show or explain your reasoning.

* (From Unit 5, Lesson 13.)



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