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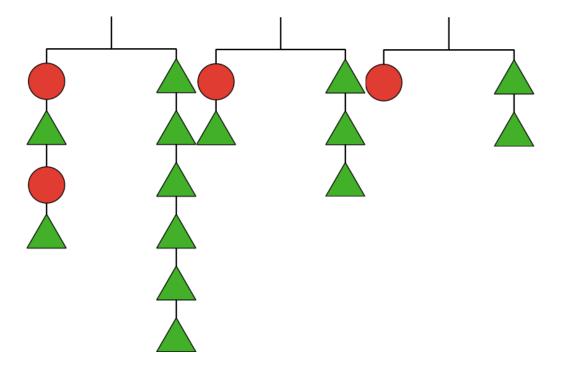
Student Workbook

Lesson 6: Equality Diagrams

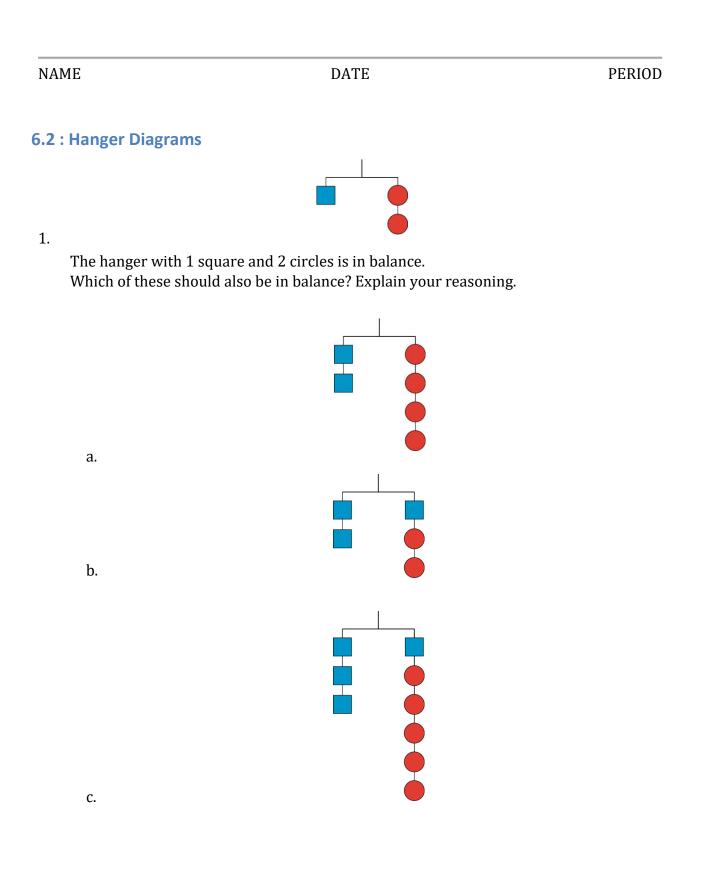
Let's use hanger diagrams to understand equivalent equations.

6.1 : Notice and Wonder: Solving Equations

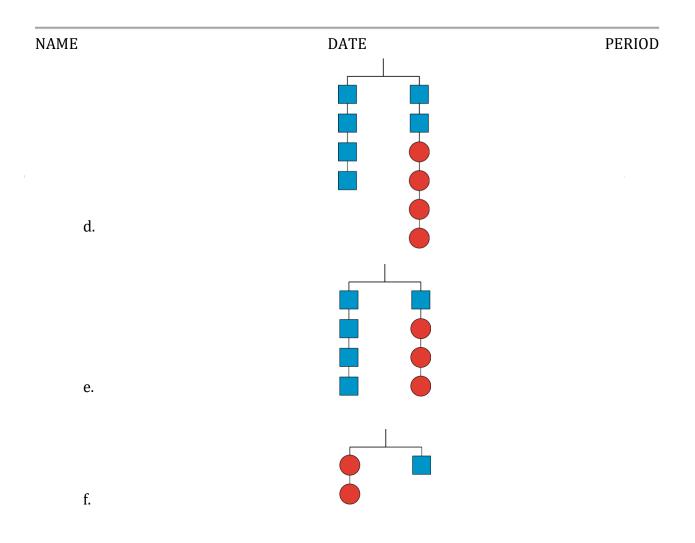
What do you notice? What do you wonder?



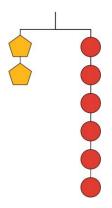








2. This hanger containing 2 pentagons and 6 circles is in balance. Use the hanger diagram to create two additional hangers that would be in balance.



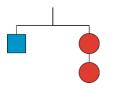


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6.3 : Diagrams and Equations

In the previous activity, each square weighs 10 pounds and each circle weighs *x* pounds.



So, this diagram could be represented by the equation. 10 = 2x

- 1. Use each of the 6 hanger diagrams containing squares and circles from the previous activity to write an equation that represents the weights on the hanger.
 - a. b. c. d. e. f. Solve each equation. a. b. c. d.
 - e.

f.

2.



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3. Compare the solutions to the equations with the answers from the previous activity. What do you notice?