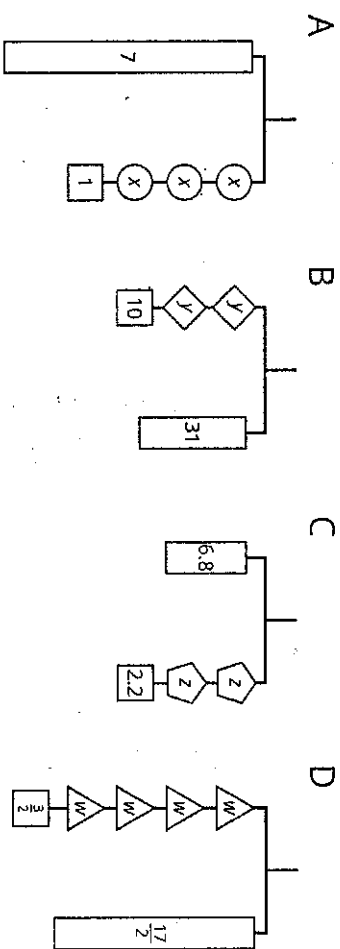


7.3: Use Hangers to Understand Equation Solving (15 minutes)

Setup:

Keep students in the same groups. 5–10 minutes of quiet work time and share with a partner followed by a whole-class discussion.

Student task statement



Here are some balanced hangers where each piece is labeled with its weight. For each diagram:

1. Write an equation.
2. Explain how to figure out the weight of a piece labeled with a letter by reasoning about the diagram.
3. Explain how to figure out the weight of a piece labeled with a letter by reasoning about the equation.

Lesson Synthesis (5 minutes)

Display the equation $4x + 6 = 9.2$. Ask students to work with their partner to draw a corresponding hanger diagram. Then, one partner