Unit 6 Lesson 3: Staying in Balance

1 Hanging Around (Warm up)

Images for Launch



Student Task Statement



For diagram A, find:

- 1. One thing that *must* be true
- 2. One thing that *could* be true or false
- 3. One thing that *cannot possibly* be true

For diagram B, find:

- 1. One thing that *must* be true
- 2. One thing that *could* be true or false
- 3. One thing that *cannot possibly* be true

2 Match Equations and Hangers

Student Task Statement



1. Match each hanger to an equation. Complete the equation by writing *x*, *y*, *z*, or *w* in the empty box.



2. Find a solution to each equation. Use the hangers to explain what each solution means.

Activity Synthesis



3 Connecting Diagrams to Equations and Solutions

Student Task Statement

Here are some balanced hangers. Each piece is labeled with its weight.



For each diagram:

- 1. Write an equation.
- 2. Explain how to reason with the *diagram* to find the weight of a piece with a letter.
- 3. Explain how to reason with the *equation* to find the weight of a piece with a letter.