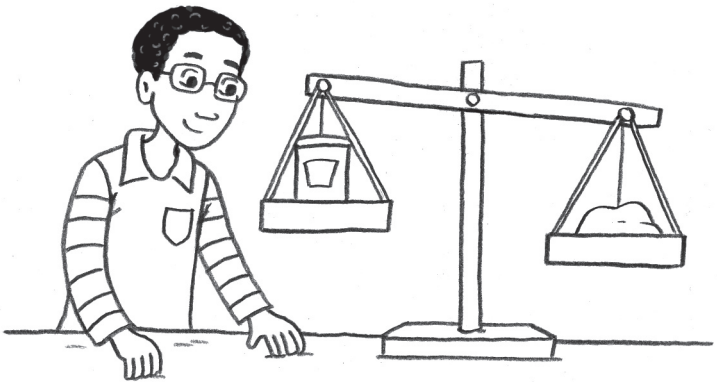
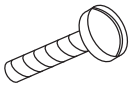
Name _____ Date _____

Balancing Masses

Use the information in the Mass of Objects table below to answer the questions. Remember to use labels in your explanations.



Mass of Objects

Object	Mass (in g)
 Bolt	10 g
 Washer	1 g
 Hex nut	8 g

1. Levi has a rock with a mass of 87 grams in one pan of his balance and a can with a mass of 59 grams in the other pan. How much mass does he need to add to the pan with the can to make the balance level? Write a number sentence.

2. A. Kim is using bolts and washers for standard masses. How many bolts and washers would it take to balance a box with a mass of 53 g? Write a number sentence to explain your answer.

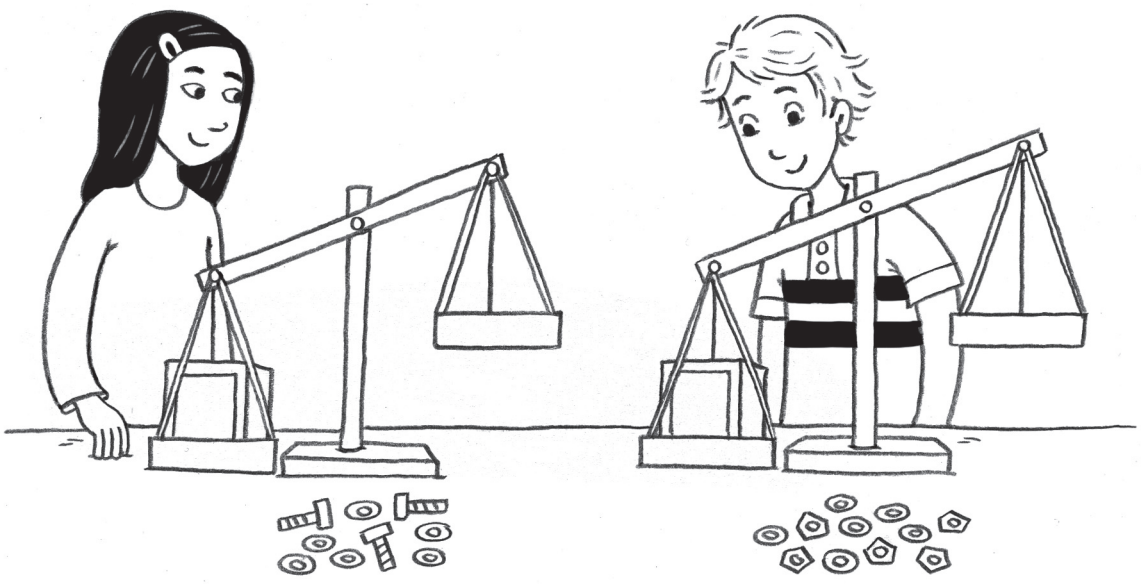
Number of bolts _____

Number of washers _____

Number sentence _____

B. Is there another possible answer for Question 2A? If so, give another answer. Write a number sentence.

Name _____ Date _____



3. Josh is using hex nuts and washers for standard masses. How many hex nuts and how many washers would it take to balance a box with a mass of 53 g? Write a number sentence to explain your answer.

Number of hex nuts _____

Number of washers _____

Number sentence _____

4. Kim used bolts and washers and Josh used hex nuts and washers to measure the mass of an object. Which set of standard masses do you think is easier to use, Kim's or Josh's? Explain.