

Session 1, Short-Answer Questions

9. Compute:

$$43.68 \times 2.5 =$$

*Reporting Category/Substrand for Item 9: **Number Sense/Computation and Estimation (p. 142)***

10. Write the rule for the table shown below.

Input (x)	Output (y)
3	5
6	11
2	3
8	15

*Reporting Category/Substrand for Item 10: **Patterns, Relations, and Functions/Patterns and Functions (p. 143)***

11. What does y equal in the equation below?

$$6 - 2y = -8$$

*Reporting Category/Substrand for Item 11: **Patterns, Relations, and Functions/Algebra (p. 143)***

Session 1, Open-Response Question

12. Erin is writing a science fiction story. She has invented a money system for her planet that uses four coins that she drew and named like this:



She has challenged her classmates to determine the relationships among the values of the coins from the following clues.

CLUE 1:

3 C s are worth the same as 1 T and 1 C .

CLUE 2:

Kay bought a game costing 1 H R R .

She gave the clerk 2 H s. Her change was 1 R .

CLUE 3:

Kay and Max have the same amount of money.

Kay has 1 R , 4 C s, and 1 H .

Max has 3 R s and 6 T s.

- a. Use Clue 1 above to find how many C s equal 1 T . Use words or pictures to explain your reasoning.
- b. Use Clue 2 to find how many R s equal 1 H . Use words or pictures to explain your reasoning.
- c. Use Clue 3 and your answers to parts a and b to find how many T s equal 1 R . Use words or pictures to explain your reasoning.
- d. Erin told her classmates that 1 C is worth 25¢ in U.S. money. What is the value in U.S. money of **each** of the following?
 - 1 T
 - 1 R
 - 1 H

Reporting Category/Substrand for Item 12: Patterns, Relations, and Functions/Algebra (p. 143)