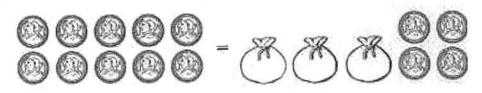


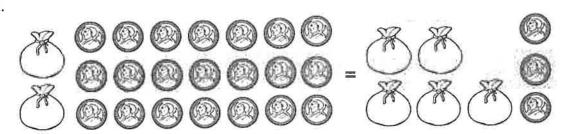
Exploring Equality

How many gold coins are in each pouch? Show your steps so that someone else could follow them.

1.



2.



- 3. How can you check your answer? That is, how do you know you found the correct number of gold coins in each pouch?
- 4. How did you maintain equality at each step?



Because the number of gold coins in each pouch is unknown, we can let x represent the number of gold coins in one pouch and use numbers to represent the number of coins. For each problem:

- Write an equation to represent the situation.
- Use the equation to find the number of gold coins in each pouch.

Manipulatives	Symbolic
	Equation:
	Equation:
	Equation:

For each equation below, solve them using your ideas from the problems above. Check your answer.

4.
$$30 = 6 + 4x$$

5.
$$7x + 2 = 12 + 5x$$

6. Describe a general method for solving equation using what you know about equality.