## **Clues for Problem Solving Detectives**





1. Read the problem (case) and search for clues:

Jesse had \$3 more than Clinton. Clinton had \$10. How much money do they have altogether?

2. Rewrite the question as a complete sentence, leaving space for the answer.

"Clinton & Jesse had \_\_\_\_\_ altogether."



3. Identify the who and the what clues by circling them.

Jesse had \$3 more than Clinton. Clinton had \$10. How much money do they have altogether?

4. Draw a unit bar for each variable (or clue) in order.

Jesse's money

Clinton's money



5. Model your investigative skills by following these steps:

A. Re-read the problem in small chunks.

B. Adjust the unit bars to match the info in each chunk.

C. Fill in a ? (are you solving for a part or the whole?).

Jesse's money

10 3

Clinton's money

10



6. Use <u>numbers</u> to solve the problem (case).

\$10 + \$10 + \$3 = 23 total

OR \$20 + \$3 = \$23 total

OR (\$10 x 2) + 3 = 23 total





7. Use **words** to describe the answer in a sentence. Case closed!

"Clinton & Jesse had \$23 altogether."

## Questions to ask during the investigation:

- Who is involved in this situation?
- What do they want me to find out?
- Will I be comparing anything?
- Am I searching for <u>a part</u> or <u>the whole</u> thing?
- What kind of model should I draw as I gather clues?
  - Do I need one long bar for all people involved **OR** one short bar for each person?
  - Do I need one long unit bar to model the parts of the whole **OR** should I use different unit bars because there is a comparison?
  - Adding & multiplying most often use short bars and subtraction & division mostly use long bars.

## Different types of models:

