Tell what CGI type a particular problem is
Sample problem: Tell what CGI type each of these problems is:

1. Michelle had 6 marbles. When she cleaned her room, she found some more marbles, and then she had 9 marbles. How many marbles did she find? JCU	2. Nora has 13 markers. Ethan has 8 fewer markers than Nora. How many markers does Ethan have? CQU
4. Sandy has 2 red hats. She has 2 fewer red hats than blue hats. How many blue hats does she have? CRU	6. There are 5 sweet crackers in the lunch box, and 10 salty crackers in the lunch box. How many crackers are in the lunch box? PPW-WU
9. Todd has 5 stuffed toy animals and 9 hard plastic toy animals. How many more hard plastic toy animals than stuffed toy animals does Todd have? CDU	10. Zach has 6 GI Joes. He has 2 more GI Joes than Sam. How many GI Joes does Sam have? CRU

Describe how to solve problems of each of these types by direct modeling:
Sample problems: (20b) JCU (joining to): Ralph made 2 paper airplanes. How many more does he have to make to have 5 paper airplanes?
- count out 2 counters
- count out more counters (in a new pile), until you have 5 in all
- count the new counters you put out to get the answer

Describe how to solve problems of each of these types by using the associated counting strategy:

22. Describe how to solve this JCU problem by counting on to: Ralph made 2 paper airplanes. How many more does he have to make to have 5 paper airplanes?
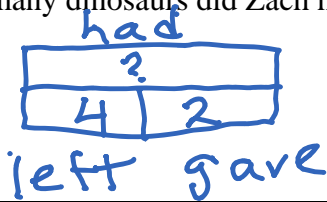- Start with 2
- Using your fingers to keep track, count on until you get to 5
- The number of fingers you have up is the answer

Draw a labelled bar diagram for a word problem of any of the CGI types, and write the associated addition and subtraction number sentence(s) (note: a missing whole problem will typically have only one number sentence (addition), but a missing part problem should have two associated equations: a subtraction equation and a missing number addition equation).

Sample problems: draw labelled bar diagrams for each problem, and write the associated equation (if missing whole) or equations (if missing part).
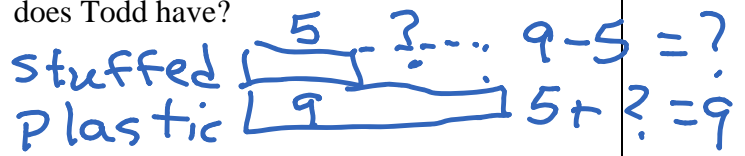
27. Sandy has 2 red hats. She has 2 fewer red hats than blue hats. How many blue hats does she have?	28. Ellen had 11 butterfly stickers. She gave some butterfly stickers to Lisa. Now she has 8 butterfly stickers left. How many butterfly stickers did she give to Lisa?
red [2	2] blue [?] $2+2=?$	had [11] gave [?] left [8] $11-8=?$ $8+?=11$

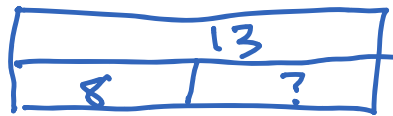| 31. Zach had some dinosaurs. He gave 2 dinosaurs to Seth. Now he has 4 left. How many dinosaurs did Zach have to begin with?	32. Todd has 5 stuffed toy animals and 9 hard plastic toy animals. How many more hard plastic toy animals than stuffed toy animals does Todd have?
had ? 4 | 2 left gave $4+2=?$	stuffed 5 ? 9-5=? Plastic 9 5+?=9

For any subtraction problem, make a bar diagram, and write the associated missing number addition problem. Some more bar diagram examples

Sample problem: 36. Draw a bar diagram and write the associated equations for 13-8=?

13
8 \| ?

$13 - 8 = ?$

$8 + ? = 13$