

Give yourself 15 minutes for this take-home quiz. Calculators or notes are not allowed, but class manipulatives may be used. This quiz will be exchanged and discussed during class.

1. A student gave the following solution to a mathematics problem:

"The answer is 104. First I did 50 percent which was 80. Then I did 10 percent which is 16. Then I did half of that (5 percent) which was 8. I added them (16+8) to get 24, and added that to 80 to get 104."

What mathematics computation was the student trying to solve? Explain. (3 MP*)

2. In a terrarium, there are 10% more female bugs than male bugs. If there are 9 more female bugs than male bugs, then how many bugs are in the terrarium? Explain. (2 MP*)

Source: Beckman, CA 2X (hint: a strip diagram may be helpful)