Sample: Breaking down math concepts

Below is an example of how we broke down the concept of ratios into the steps to do the math.

For example, if someone told us that 5 cookies is $5, how much are 8 cookies, we would do an implicit step in our head of how much 1 cookie is. When we teach it to my brother, it is very important to make this implicit step, explicit. Hence, in the way we break it down in the example we show that implicit step. By setting this step up as part of the worksheet, I do not have to verbally prompt my brother to do it - he does it independently.

In addition, the ratios were based on topics that he liked, e.g., his favorite foods, items, etc.

Example:

5 cookies = $5
1 cookie = $1
8 cookies= $8

Initial worksheet questions:

9 pants = $81
1 pant = _____
5 pants = _____

8 tacos= $24
1 taco = _____
7 tacos = _____

4 volleybals = $24
1 volleyball = _____
9 volleyballs = _____

5 chips = $15
1 chips = _____
8 chips = _____

After he understood the concept, we could remove the intermediary step from the worksheet:

9 enchiladas = $72
5 enchiladas = _____

6 tennis balls = $12
4 tennis balls = _____

3 cookies = $9
7 cookies = _____

8 shirts = $40
6 shirts = _____