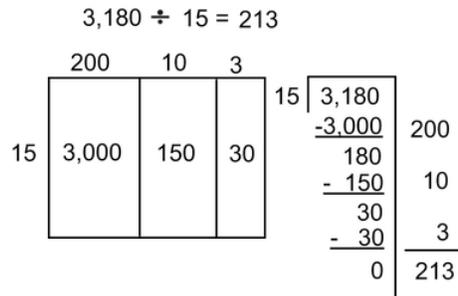
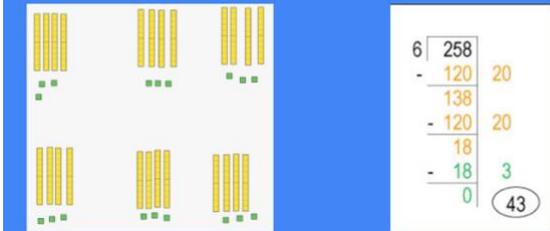
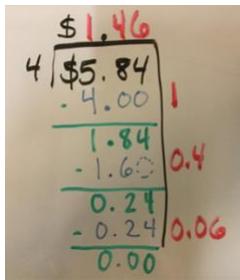


Models and Representations

Do you notice any relationships between these two pictures??



When dividing, students use base-10 blocks to illustrate what is happening when you divide numbers. Students make connections between the base-10 blocks and area model and the partial quotient algorithm. The algorithm is built over a period of days increasing in complexity as the number of digits increases.



Students make connections between what they know of whole number division to division with decimals in the dividend. The multiplication patterns of decimals help the students with division. (4 x 0.4 is move one place to the right from 4 x 4.)

Students then take everything they have learned to solve division word problems. They must interpret the remainders so that the answer matches the story.

1. Draw a picture.
2. Divide like normal.
3. Tell what the remainder represents.
4. Decide what to do with the remainder-ignore it, make it a fraction/decimal, or round the answer up.
5. Fill in your picture and ask if your answer makes sense.

