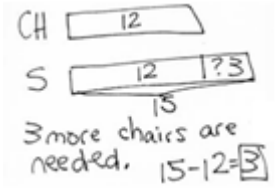
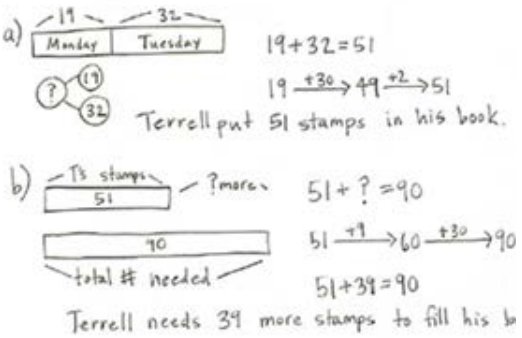
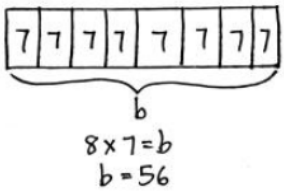
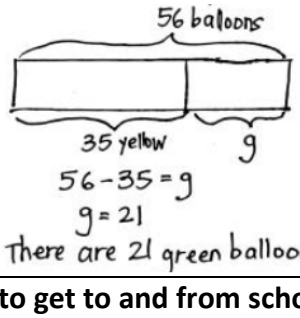
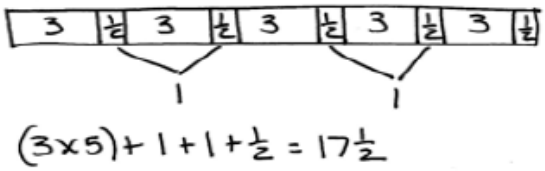
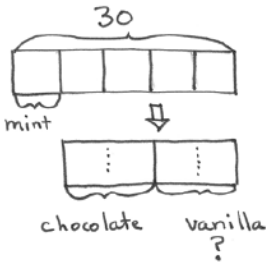
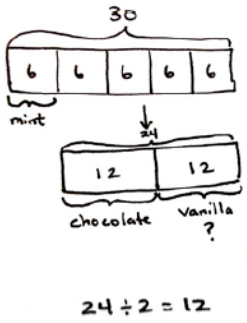
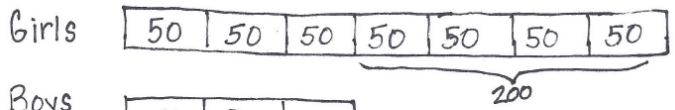
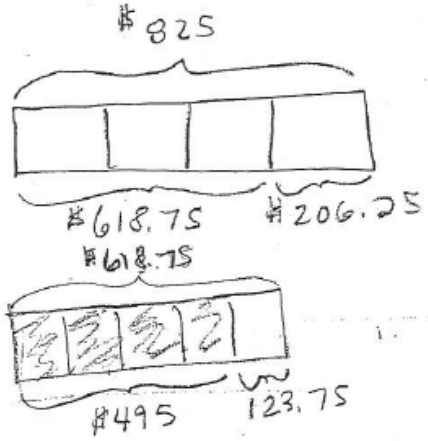
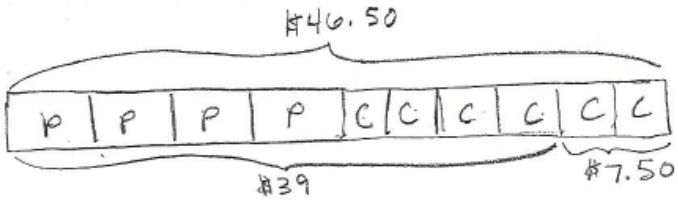
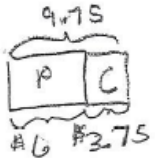
TAPE DIAGRAM PROGRESSION

Kindergarten	1 + 4
1st Grade	**There are 12 chairs at the lunch table and 15 students. How many more chairs are needed so every student has a chair?** 
2nd Grade	Terrell put 19 stamps in his book on Monday. On Tuesday, he put in 32 stamps. a. How many stamps did Terrell put in his book on Monday and Tuesday? b. If Terrell's book holds 90 stamps, how many more stamps does he need to fill his book? 
3rd Grade	There are 8 bags of yellow and green balloons. Each bag contains 7 balloons. If there are 35 yellow balloons, how many green balloons are there?  
4th Grade	**Robin rides for 3 ½ miles round-trip to get to and from school. How many miles would Robin ride in 5 days?** 
5th Grade	Joakim is icing 30 cupcakes. He spreads mint icing on $\frac{1}{5}$ of the cupcakes and chocolate on $\frac{1}{2}$ of th remaining cupcakes. The rest will get vanilla icing. How many cupcakes have vanilla icing?  

6th Grade	Wells College in Aurora, New York was previously an all-girls college. In 2005, the college began to allo boys to enroll. By 2012, the ratio of boys to girls was 3 to 7. If there were 200 *more girls than boys* in 2012, how many boys were enrolled that year? Use a table, graph, or tape diagram to justify your answer.  150 boys were enrolled in 2012.
7th Grade	Mark bought an electronic tablet on sale for $\frac{1}{4}$ off its original price of $825.00. He also wanted to use a coupon for a $\frac{1}{5}$ off the sales price. Before taxes, how much did Mark pay for the tablet? (G7)  825 ÷ 4 = 206.25 206.25 (3) = 618.75 618.75 ÷ 5 = 123.75 618.75 - 123.75 = 495 Mark paid $495 for the tablet.
8th Grade	Some friends went to the local movie theater and brought four large buckets of popcorn and six boxes of candy. The total for the snacks was $46.50. The last time you were at the theater, you bought a large bucket of popcorn and a box of candy, and the total was $9.75. How much would 2 large buckets of popcorn and 4 boxes of candy cost?   9.75 × 4 = $39 2P + 4C = 2(6) + 4(3.75) = $27 4P + 6C = 46.50 -4(P + C = 9.75) 4P + 6C = 46.50 -4P - 4C = 39.00 2C = 7.50 C = 3.75 Two large buckets of popcorn and four boxes of candy cost $27.