Solve each problem. name:

Look for places where a bar diagram can help you.

1. The ratio of pennies to dimes in my change jar was 3:5. I added 4 more pennies and 4 more dimes. Now I have 31 pennies. How many dimes do I have?

2. Anna got some Peeps bunnies and some chocolate eggs in her Easter basket. Then she went to a party and got 6 more chocolate eggs. That gave her a total of 24 Peeps and eggs, and she had half as many Peeps as eggs. How many chocolate eggs were in the basket to begin with?

3. The cookie plate had some snickerdoodle cookies and some chocolate cookies. There were 2/3 as many snickerdoodles as chocolate cookies. During the day, half of the chocolate cookies and all but 2 of the snickerdoodles were eaten. If there were 11 cookies total left at the end of the day, how many cookies were there at the beginning?

4. 5/8 of the origami animals on the shelf were birds. Marie folded 8 more frogs and now there are 40 origami animals total. How many are birds?

(Hint: 5/8 ***of the animals*** were birds. What does that make the bird : non-bird ratio?)

5. The ratio of the number of John's stamps to the number of Peter's stamps is 5:8. Peter has 18 more stamps than John. If Peter gives 22 stamps to John, what will be the new ratio of the number of John's stamps to Peter's?

6. Peter spent 1/3 of his money on a toy car and 2/3 of the remainder on a toy boat. He had $6 left. How much money did he spend altogether?

(Hint: He spend 2/3 ***of the remainder*** of his money on a boat. Note: this problem does not tell a ratio between items, so a table is probably not the most useful representation)

7. A bottle contains blue beads and red beads. The number of red beads is 4 times the number of blue beads. If there are 3568 red beads, how many more red beads than blue beads are there?

8. The ratio of men to the number of women in a factory is 3:8. There are 120 more women than men. If the number of men increases by 3 and the number of women decreases by 12, what will be the new ratio of the number of men to the number of women?

9. Write in the appropriate ratios, percents and fractions so that all of these statements mean the same thing:

The ratio of pens to pencils in my desk is 1:4

The ratio of pencils to pens in my desk is

I have  (times) as many pens as pencils in my desk

I have  (times) as many pencils as pens in my desk

 of my writing implements are pencils.

 % of my writing implements are pens