Fraction exam practice:

1. Write a word problem for $\frac{7}{8}-\frac{2}{3}$

I had 7/8 of a quart of cream. I whipped 2/3 of a quart of put on pies. How much cream do I have left?

2. Write a word problem for $\frac{3}{4}+\frac{5}{6}$

Sarah walked 3/4 of a mile yesterday and 5/6 of a mile today. How far did she walk?

3. Write a word problem for $\frac{3}{4}\times\frac{5}{6}$

The candy dish holds 3/4 lb of candy when it is full. Right now it is 5/6 of the way full. How much candy is in the dish?

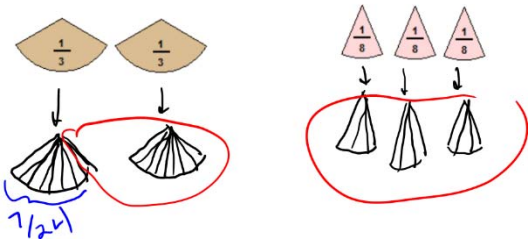
4. Write a measurement division word problem for $\frac{7}{8}\div\frac{1}{3}$

I have 7/8 of a gallon of punch. I am using it to fill jugs that hold 1/3 of a gallon. How many jugs can I fill with punch?

5. Draw and explain the process of subtracting $\frac{2}{3}-\frac{3}{8}$ using fraction circles by matching and trading.

Humbug. I wrote a bad problem. To subtract, you need a common denominator, which would be twenty-fourths. I don't know any fraction circle sets that go that small (the smallest I've seen go down to twentieths). Oh well, I shall pretend that I have fraction pieces that small, and will try to write a better problem next time…

I would experiment by finding fraction circles pieces that match both thirds and eighths. The first size I could find that matches both would be twenty-fourths. I would find that 8 twenty-fourths is the same size as 1/3, and 3 twenty-fourths is the same size as 1/3. I would trade 2/3 for 16/24, and I would trade 3/8 for 9/24. Then I would match the 9/24 to 9 of the twenty-fourths in 16/24, and move those to the side. I would be left with 7-twenty-fourths, which would be the answer.



In class notes: