7:45   Put warm-up on the board:
   1. Turn in homework, take a donut.
   2. ½ - 1/3 =   Just do it. (Nike swoop)   *A: 3/6 – 2/6 = 1/6*
   3. On "Math Club" days, school starts at 8:10 and ends at 3:15. How many hours

   long is your school day?   *A:* $3\dfrac{5}{6}+3\dfrac{1}{4}=6+\dfrac{10}{12}+\dfrac{3}{12}=6\dfrac{13}{12}=7\dfrac{1}{12}$

                                                   A: or 7 hours 5 minutes
   4. There are 16 ounces per pound. How many pounds is 84 ounces?
                     Method 1:   *Long division, 84 ÷ 16 = 5.25*

                     Method 2:   *Reducing fraction,* $\dfrac{84}{16}=\dfrac{42}{8}=\dfrac{21}{4}=5\,\dfrac{1}{4}$
   5. Find the prime factors of 693.   *A: 3 x 3 x 7 x 11*
The following are trick questions and math jokes!
   6. Suppose I have a <u>20' ladder</u> and a <u>30' rope</u>. Then I find two trees and tie one end
      of each rope 20' up in a tree. If I want the bottom of the 'U' in the rope to be 5'
      above the ground, then how far apart must the two trees be? *A: touching, it takes*
      15' of rope to go down, then 15' to go back up again to the 20' level!
   7. A farmer has 2 haystacks in each of 13 fields, and he puts them all together, how
      many haystacks does he have?   *A: one big one*
   8. A farmer sees 26 birds on a telephone wire and shoots one dead, how many are
      left?   *A: none, they all flew away*
   9. A farmer has 26 rabbits in a field and shoots one dead, how many are left?
                                          A: one, the dead one
Orally: A farmer has twenty <u>sick</u> sheep in a pen and one died, how many are left? *A: 19*

8:10   Circulate attendance sheet
       Discuss warm-ups

8:30   Discuss top 3 problems:
       Prob 1e: LCM of 16 and 18   *A: 144*
       Prob 5a: How many primes are there from 1 to 50?
                 Write all 50, cross out every two, every three, etc.
                 List: 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47   *= 15 total*
       Prob 3:   Even × even, even × odd, odd × odd
       Prob 8:   Double vision: 11 × 91 = 1001
                 What other factors make 1001?   *Ans: 11 × 7 × 13 = 1001*
8:50   Lesson 3
       Prime factor lookup table
       Emphasize: lots of examples, how to check your work
Backup topics if time is leftover:
       Finding primes using Erosthenes Sieve, from 1 to 50
       Multiplying negative numbers
       Adding negatives on number line, or
       Start homework
9:10   Hand outs, dismissed!