## Homework 25.



- In a mix of dried fruits, there are 7 parts dried apples, 4
  parts dried pears, and 5 parts dried apricots, which means they should be
  mixed in the ratio 7:4:5. What is the weight, in grams, of the apples, pears,
  and apricots in the fruit mix if the total weight is 1600g?
- 2. The ratio of roses to hibiscuses in the garden is 9:11. If there are 99 rose



bushes, what is the total number of flower bushes in the garden?

3. Winnie the Pooh can eat 10 kg of honey in 4 hours, and Little Piglet can eat 10 kg of honey in 5 hours. How much honey can they eat together in 3 hours?

4. The difference between two numbers is  $8\frac{1}{2}$ , and their sum is 17. How many times is one number bigger than the other?

5. Solve the equations:

a.  $5\frac{1}{4} \cdot x = \frac{7}{8}$ ; b.  $c: 1\frac{11}{16} = \frac{4}{9}$ ; d.  $1\frac{2}{3}: x = 2\frac{7}{9}$ ; e.  $4\frac{2}{9} = 6\frac{1}{3} \cdot k$ 6. Evaluate (answer is  $4\frac{3}{4}$ ):  $\frac{9}{10} \cdot 1\frac{1}{14}: 2\frac{4}{7} \cdot 24 - 2\frac{4}{15}: \left(1\frac{1}{5} - \frac{2}{3}\right)$ ;

7. *m* is a positive number less than 1. (We can write 0 < m < 1). Compair:

- a.  $10 \dots 10 \cdot m;$  b.  $10 \dots 10 \cdot m;$
- 8. A bus carrying 4th-grade students started its journey to a field trip from Stony Brook at 9 am, moving at a speed of 54 km/h. After  $2\frac{1}{3}$  hours, Robert's father realized that Robert had forgotten his sleeping bag, so he jumped into his car and started going after the bus at a speed  $1\frac{4}{9}$  times higher than the speed of the bus. When will he catch the bus?