

1.  $160(4)(2500) = 1,600,000$  gallons of soymilk

2. Each worker completes  $(3 \text{ jobs}/6 \text{ days})(1/8 \text{ workers}) = 1/16$  of a job per day. Since there are 5 jobs remaining and 5 workers, each worker must complete the equivalent of 1 job on their own. We already established that each worker completes the equivalent of  $1/16$  of a job per day, thus it will take 16 days to complete the remaining 5 jobs.

3.  $50(60)(10)(0.96) = 28,800$

$48.5(60)(10)(0.99) = 28,809$

$28,809 - 28,800 = 9$  more part As

4.  $7^x = \frac{7^{46}(7^2 - 7^1 - 7^0)}{41} = \frac{7^{46}(49 - 7 - 1)}{41} = \frac{7^{46}(1)}{1} = 7^{46}$ , therefore  $x = 46$ .