A farmer owns 60 acres of land. She can plant either

wheat or corn. Based on current predictions, wheat

will yield a profit of $200/acre while corn yields a

profit of $300/acre.

Each planted acre uses fertilizer and labor, wheat

using 2 tons of fertilizer and 3 hours of worker time;

corn using 4 tons of fertilizer and 2 hours of worker

time.

There are 100 hours of worker time and

120 tons of fertilizer available (costs of which are

already included in the profit calculation).

How should the farmer divide her land?