Farmer brown raised 114 goats and then entered into a series business transactions. he traded all the goats for sheep at an exchange rate of 6 goats for 11 sheep. next he exchanged all the sheep for hogs at a rate of 5 sheep for 8 hogs. each hog weighted 295 lbs each. he sold all the hogs at market price of 82$ per 100 lbs. how much money did he make from his 114 goats?

Solution:
1) Farmer traded goats for sheep:
   6 goats correspond 11 sheep
   114 goats correspond x sheep
   by proportion $x = \frac{114 \times 11}{6} = 209$
   then, farmer had 209 sheep after first exchange.
2) Farmer traded sheep for hogs:
   5 sheep correspond 8 hogs
   209 sheep correspond y hogs
   by proportion $y = \frac{209 \times 8}{5} = 334$
   then, farmer had 334 hogs after second exchange.
3) Than, total weight of hogs is 334×295 = 98 530 lbs, which is equal to $\frac{98\,530 \times 82}{100} =$ 80 794.6 $

Answer: Farmer makes 80 794.6 $ from his 114 goats.