Bushels of Math Problems

Think like a farmer to solve everyday math problems for a farm. Below, you will find facts that will provide you information for your problems. We have provided you a hint in which fact to use. Work the problems out on a seperate sheet of paper

1. One bushel of shelled corn weighs 56 pounds.
2. Average yield per acre is about 125 bushels of shelled corn. This can vary from a low of 50 to a high about 200 (depending on the weather and other factors.)
3. Seed corn is purchased in bags containing 80,000 kernels.
4. Approximately 24,000 to 30,000 seeds/kernels per acre are planted. The number of seeds per foot of row depends on the row width.
5. In the summer of 1999, a bushel of corn was selling for about $2.18. This varies from year to year.

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1. How much would 8 bushels of shelled corn weigh? *Use Fact 1.*
2. If you have 672 pounds, how many *bushels* is that? *Use Fact 1.*
3. How many bags of seed corn should a farmer buy assuming he wants to plant 28,000 seeds per acre and he has 100 acres to plant? *Use Fact 3.*
4. How much money should the farmer bring to buy the seed from problem 3, if one bag costs $85?
5. What is the above farmer's seed cost per acre?
6. If a farm yields 750 bushels of corn, how many acres of corn were planted? *Use Fact 2.*
7. How many bushels in a *ton* of corn? *Use Fact 2.*
8. A farmer sold 325 bushels of corn. How much money did he receive? *Use Fact 5.*
9. If a farmer needed to make $872, how many bushels would he have to sell? *Use Fact 5.*
10. Write your own problem for a classmate to solve.

ANSWER KEY

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1. How much would 8 bushels of shelled corn weigh? *(8 x 56 =* ***448 lbs****.)*

2. If you have 672 pounds, how many *bushels* is that?
   (672 div. 8 = 56 = ***12 bushels****)*

3. How many bags of seed corn should a farmer buy assuming he wants to plant 28,000 seeds per acre and he has 100 acres to plant?
   (28,000 x 100= 2,8000,000 div. 80,000 = ***35 bags****)*

4. How much money should the farmer bring to buy the seed from problem 1, if one bag costs $85? *(35 bags x $85 =* ***$2,975****)*

5. What is the above farmer's seed cost per acre?
   ($2,975 div. 100 = ***$29.75/acre****)*

6. If a farm yields 750 bushels of corn, how many acres of corn were planted?
   (750 div. 125 = ***6 acres****)*

7. How many bushels in a *ton* of corn? *(2,000 div. 56 =* ***35.7 bushels****)*

8. A farmer sold 325 bushels of corn. How much money did he receive?
   (325 x $2.18 = ***$708.50****)*

9. If a farmer needed to make $872, how many bushels would he have to sell? *($872 div. $2.18 =* ***400 bushels****)*

10. Write your own problem for a classmate to solve.