BE THE FARMER! MATH IN ACTION!

DIRECTIONS

Welcome to your farm! You are now the head farmer and you have to make important decisions. Carefully complete each word problem below. Your farm depends on your leadership!

Use the aerial view of a section of your farm below to answer questions 1-5.



- 1. Calculate the perimeter of your farmland.
- 2. Calculate the total area of your farmland.
- 3. You want to plant corn in only the shaded field. What is the area of this field?
- 4. What is the difference in area between the non-shaded field and the shaded field?
- 5. You decide to plant trees around your shaded field, on all four sides, to keep wind from blowing away your soil. What is the perimeter of the 4 sides of the shaded area only?

Farmers plant about 30,000 corn seeds on every acre of land. Use this information to answer questions 6-10.

- 6. Corn is an annual, which means you must re-plant every year. How many seeds would you plant if you grow one acre of corn for five years?
- 7. You just bought a new piece of land that is 4 acres. You want to plant half of it with corn this year. How many seeds will you need?
- 8. A seed company gave you a discount if you bought 120,000 seeds. How many acres of corn can you plant with these seeds?
- 9. You don't want all of your corn ready at one time, so you plant 1/5th of your seeds each week for 5 weeks. If you begin with 30,000 seeds, how many seeds will you plant each week?
- 10. If farmers grow approximately 90,000,000 acres of corn in the US each year, approximately how many seeds are used?

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