



Problem of the Week

Problem B

Fields of Flowers

Sadie has garden beds that are 11 m by 14 m. She wants to grow giant sunflowers in one of her garden beds and dwarf sunflowers in another garden bed.

- (a) Sadie spaces the giant sunflower seeds 50 cm apart, in rows that are 50 cm apart, leaving a 100 cm border on all sides of the garden bed. How many giant sunflower seeds can she plant in one garden bed?
- (b) In another garden bed, Sadie plants dwarf sunflower seeds. She spaces the seeds 25 cm apart, in rows that are 25 cm apart, leaving a 100 cm border on all sides of the garden bed. How many dwarf sunflowers can she plant in this garden bed?
- (c) All of Sadie's sunflowers have germinated and matured, but then in a cold early frost one evening, she loses 20% of the giant sunflowers and 10% of the dwarf sunflowers. If Sadie sells all the surviving sunflowers at \$5.00 each for the giants and \$3.00 each for the dwarfs, which crop will provide the greater income?

