Playing Checkers

You set up a game of checkers as shown. Write a decimal for each percent you find.

1. What percent of the checker board is shaded?

2. What percent of the checker board is *not* shaded?

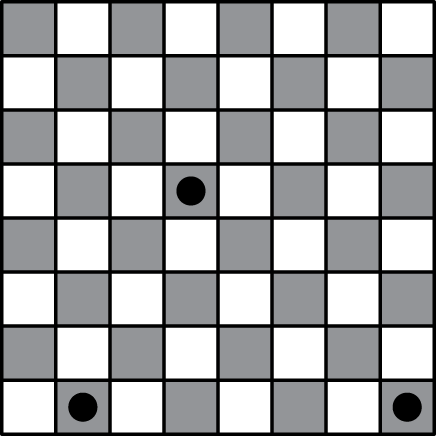
3. Your friend arrives and places pieces appropriately on the board.

a. What percent of the checker board squares have pieces?

b. What percent of the checker board squares do *not* have pieces?

c. What percent of the shaded checker board squares have pieces?

d. What percent of the shaded checker board squares do *not* have pieces?

 4. At one point during the game, 4 of your pieces have been removed and 5 of your friend’s pieces have been removed.

a. What percent of the original number of pieces have been removed?

b. What percent of the original number of pieces are remaining?

5. The checker piece near the middle of the board can move diagonally in any direction between shaded squares.

a. On how many different squares can the piece be located at the end of one turn?

b. On how many different squares can the piece be located at the end of two turns? What percent of the shaded checker board is this? Write this percent as a decimal.