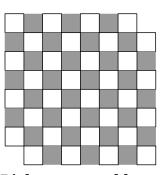
Write the solutions for problems 1 - 3 *on this handout*:

- **1.** S16 is set of multiples of 16 less than 100. S12 is a set of multiples of 12 less than 100.
 - List the elements of these sets using curly brackets {}
 - Draw Venn diagram for S12 and S16.

- **2.** If it is 7am now, what time of the day will it be in ...
- (a) ... 27 hours?
- (b) ... 127 hours?
- (c) ... 11043 hours?
- **3.*** If we take a usual chessboard and remove two diagonally opposite corner squares, is it possible to cut it into **2** × **1** rectangles?



[Hint: it is important that some squares are black, some are white]. Pick a reasonable range for your Cartesian plane, do not use the whole page.

Solve problems 4 - 7 *in your notebook*:

- **4.** Use a RULER to draw a Cartesian X Y plane. Plot a quadrilateral ABCD by points
 - A(3, -1)
- B(3,3)
- C(-1,3)
- D(-1, -1)
- **5.** Make an auxiliary **drawing** to construct an **equation** needed to solve a word problem:

Four friends, Pichu, Pikachu, Tepig, and Oshawott went trick or treating. Oshawott collected 50 more candies than Pichu, Pikachu 50 less, and Tepig got 2 times more candies than Pichu. When they got together and put all candies in one jar, the number was 250.

How many candies each one collected?

- **6.** Divide with remainder:
- a). 825:9
- b). 3761:13
- c). 111,111,111,111 : 111
- **7.** How many vans are needed to take 32 students on a field trip if a van can take 6 students?

What is the maximal number of vans that can be fully occupied by these students?