Problem Set #2 - Wave Interactions

1) What color is seen when white light shines on these pigments?
   a. cyan + magenta
   b. red + green
   c. magenta + yellow

2) What color is seen when ____________ light shines on a ____________ pigment?
   a. green; yellow
   b. blue; magenta
   c. red; cyan + yellow
   d. magenta; red

Answers: The circled colors represent the lights that are on in that problem. The X is put over the boxes whose lights are not on. The shaded boxes represent where light would be absorbed (if that light is present).

1.a) Answer = Blue
    cyan
    magenta

1.b) Answer = Black
    red
    green

1.c) Answer = Red
    magenta
    yellow

2.a) Answer = Green
    yellow

2.b) Answer = Blue
    magenta

2.c) Answer = Black
    cyan
    yellow

2.d) Answer = Red
    red