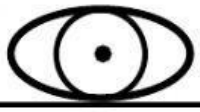
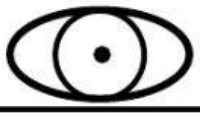
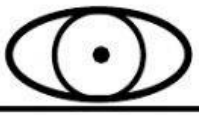
NAME: _____ DATE: _____

Joseph and Alice are the parents of four children. Joseph has brown eyes, which is a dominant trait. Joseph has blue eyes, which is a recessive trait. Use the two Punnett Squares ("B" represents the dominant brown gene, and "b" represents the recessive blue gene) to fill in the boxes.

JOSEPH

| ALICE | B | B |
|---|---|---|
| b |  | |
| b | |  |

JOSEPH

| ALICE | B | b |
|---|---|---|
| b | |  |
| b | | |

1. What fraction represents the probability that Joseph and Alice will have children with brown eyes in the first Punnett Square?

   1/4 0/4 4/4 2/4

2. What fraction represents the probability that Joseph and Alice will have children with brown eyes in the second Punnett Square?

   1/4 0/4 4/4 2/4

3. What fraction represents the probability that Joseph and Alice will have children with brown eyes in both squares altogether?

   1/8 0/8 4/8 2/8

LIVEWORKSHEETS