

NAME: _____

QUIZ 5

1. Assume that the probability of a boy being born is .50. If a couple plans on having six children, find the probability that (show all your computations)

(a) All are boys or all are girls.

(b) One or more are boys.

(c) Exactly half are boys.

(d) The number of boys is even (zero is an even number).

2. A friend proposes the following game. He is to select one card from an ordinary deck of cards. You are to pay him \$12 if he selects an ace and \$7 if he selects a 7 or a 10. What should he pay you so that the game does not favor either person (show all your computations)?
