

Math 1030 October 10, 2006 Homework 9

Attach your test problems to this sheet. Show your work, not just the answers.

Text problems: 4.2 # 11-31 odds; 4.3 # 3-25 odds

1) An urn contains 13 black balls, 15 green balls, 12 red balls, and 22 white balls.

a) $P(\text{red}) =$

b) $P(\text{colored ball}) =$

c) $P(\text{not a black ball}) =$

2) A card is drawn from a standard 52-card deck.

a) $P(\text{odd number card}) =$

b) $P(\text{odd number card or club}) =$

c) $P(\text{red or a face card}) =$

3) A roulette wheel has numbers 1-36, 0, and 00 on the rim for 38 outcomes which are equally likely.

a) $P(\text{odd}) =$

b) $P(5) =$

4) Draw a Venn diagram showing the probability experiment for rolling a die where event A is rolling an odd number and event B is rolling a prime number.