

Name: _____

1. A bag contains twenty balls numbered 1-20. A ball is chosen, replaced and another chosen. Find the following probabilities and write as fractions in their simplest form.

(a) Pr(both balls are even numbers)

(b) Pr(both balls are less than 5)

2. In the Slammers basketball team there are eight players - three of them left-handed. In the Jumpers basketball team there are nine players - four of them left-handed. A player is randomly chosen from each team. Find the following probabilities and write as fractions in their simplest form.

(a) Pr(both chosen players are left-handed)

(b) Pr(both chosen players are right-handed)

3. On any school day the probability of Kylie getting Mathematics homework is 0.8, English homework is 0.7 and homework in another subject is 0.9. Find the following probabilities giving answers as decimals.

(a) Pr(homework in only Mathematics on Monday)

(b) Pr(homework in Mathematics, English and another subject on Tuesday)

(c) Pr(no homework on Wednesday)

(d) Pr(getting homework in only Mathematics and English on Thursday and Friday)

4. A round of football had eight games. Chrissie is in a tipping competition and for one round asks her dog, Bob, to pick the winners. What is the probability that Bob picks all eight winners? Give answer as a fraction.

5. Hervey's guinea-pig had six babies - four of them males. He picks two at random to give to a friend. Find the following probabilities and write as fractions in their simplest form.

(a) Pr(both are males)

(b) Pr(both are females)

6. In a year 10 class there are 12 boys and 12 girls. Three are chosen at random to help the teacher. Find the probability that all three are girls and write as a fraction in its simplest form.

7. In another year 10 class there are 16 boys and 10 girls. Three are chosen at random from this class. Find the following probabilities writing answers as fractions in their simplest form.

(a) Pr(all three are boys)

(b) Pr(all three are girls)

(c) Pr(the first chosen is a boy and the next two are girls)