Practice worksheet | Probability

# Independent/dependent events

Name: _____ Date: _____

6 questions | 9 marks

**1.** A bag has four red and two blue balls. One blue is kept out. What remains? [1 mark]

**2.** A bag has four red and two blue balls. A drawn ball is replaced and the bag is mixed. What are the contents before the next draw? [1 mark]

**3.** Are two random colour draws without replacement from a mixed-colour bag generally independent or dependent? [1 mark]

**4.** A fair coin has shown heads three times. Must the next toss be tails? Explain. [2 marks]

**5.** One red ball is removed from a bag with three red and two blue balls. Which colour is now more likely? [2 marks]

**6.** Explain why mixing matters after returning a counter to a bag. [2 marks]