ZiloAcademy

✨ Grade 10 Maths — Tree Diagrams ✨

Name: Demo **Date:** 26/11/2026

1. P(it rains on Saturday) = 0.7 and P(it rains on Sunday) = 0.4, independently. Find P(rain on both days) as a decimal.

2. A bag has 8 red and 11 blue balls. Two are drawn without replacement. Find P(one of each colour) as a fraction in simplest form.

3. A bag has 6 red and 3 blue balls. Two are drawn without replacement. Find P(one of each colour) as a fraction in simplest form.

4. A fair coin is tossed 6 times. Find P(at least one head) as a fraction.

5. P(it rains on Saturday) = 0.7 and P(it rains on Sunday) = 0.45, independently. Find P(rain on neither day) as a decimal.

6. P(it rains on Saturday) = 0.85 and P(it rains on Sunday) = 0.1, independently. Find P(rain on exactly one day) as a decimal.

7. A fair coin is tossed 2 times. Find P(exactly 1 head) as a fraction in simplest form.

8. A bag has 5 red and 2 blue balls. Two are drawn without replacement. Find P(one of each colour) as a fraction in simplest form.

9. P(it rains on Saturday) = 0.4 and P(it rains on Sunday) = 0.35, independently. Find P(rain on exactly one day) as a decimal.

10. P(it rains on Saturday) = 0.7 and P(it rains on Sunday) = 0.75, independently. Find P(rain on exactly one day) as a decimal.