Functional Skills Level 1

Probability — Worksheet 3 Worked Answers

1. Odd numbers are 1, 3 and 5: 3/6 = **1/2**.

2. Numbers less than 5 are 1, 2, 3 and 4: 4/6 = **2/3**.

3. Total = 6 + 4 + 5 = 15. P(red) = 6/15 = **2/5**.

4. Numbers greater than 5 are 6, 7 and 8: 3/8 = **3/8**.

5. Total = 15. P(black) = 3/15 = **1/5**.

6. Exactly one head: HT or TH. 2 outcomes out of 4, so P = **1/2**.

7. Total = 10. P(yellow) = 2/10 = **1/5**.

8. Factors of 6 on a dice are 1, 2, 3 and 6: 4/6 = **2/3**.

9. 5 green sections out of 12. P(green) = **5/12**.

10. Multiples of 5 are 5, 10 and 15: 3/15 = **1/5**.

11. Numbers 1, 2, 3 and 4: 4/6 = **2/3**.

12. Total pens = 12. P(blue) = 5/12 = **5/12**.

13. P(bus pass) = 18/30 = **3/5**.

14. There are 5 even numbers out of 10. P(even) = **1/2**.

15. P(dark) = 12/20 = **3/5**.

16. Exactly two heads: HHT, HTH and THH. 3 outcomes out of 8, so P = **3/8**.

17. Not black = 4 + 5 = 9. Total = 15. P(not black) = 9/15 = **3/5**.

18. 20 winning tickets out of 100. P(win) = 20/100 = **1/5**.

19. Red or green = 3 + 2 = 5. Total = 10. P(red or green) = 5/10 = **1/2**.

20. P(even) = 3/6 = 1/2 each roll. P(even and even) = 1/2 × 1/2 = **1/4**.