Functional Skills Level 1

Probability — Worksheet 2 Worked Answers

1. Even numbers are 2, 4 and 6: 3/6 = **1/2**.

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

3. Total = 4 + 3 + 3 = 10. P(green) = 3/10 = **3/10**.

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

5. Total = 10. P(white) = 8/10 = **4/5**.

6. There are 4 outcomes with at least one head out of 4 equally likely outcomes: HH, HT, TH, TT. P(at least one head) = 3/4 = **3/4**.

7. Total = 12. P(red) = **5/12**.

8. There are 2 favourable outcomes out of 6: 1 or 6. P = 2/6 = **1/3**.

9. 4 yellow sections out of 10. P(yellow) = 4/10 = **2/5**.

10. Multiples of 3 are 3, 6, 9 and 12: 4/12 = **1/3**.

11. Numbers 2, 3, 4 and 5 give 4 outcomes out of 6. P = 4/6 = **2/3**.

12. Total pens = 10. P(red) = 4/10 = **2/5**.

13. P(cycle) = 9/24 = **3/8**.

14. Odd numbers are 1, 3, 5 and 7: 4/8 = **1/2**.

15. P(milk) = 9/15 = **3/5**.

16. P(heads three times) = 1/2 × 1/2 × 1/2 = **1/8**.

17. Total = 15. P(black) = 6/15 = **2/5**.

18. 8 winning tickets out of 40. P(win) = 8/40 = **1/5**.

19. Not red = 4 + 6 = 10. Total = 15. P(not red) = 10/15 = **2/3**.

20. P(6 then 6) = 1/6 × 1/6 = **1/36**.