Year 8 Probability – Foundation

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Answers and worked solutions · 10 questions

A. Probability skills

1. **13/20**

The event and its complement have probabilities that add up to 1

1 − 7/20 = 13/20

2. **0.625**

The event and its complement have probabilities that add up to 1

1 − 0.375 = 0.625

3. **0.65**

The event and its complement have probabilities that add up to 1

1 − 0.35 = 0.65

4. **(1, 1), (1, 2), (1, 3), (1, 4), (2, 1), (2, 2), (2, 3), (2, 4)**

Work systematically: keep A fixed and run through B

2 × 4 = 8 outcomes

5. **24 outcomes**

Each of the spinner's outcomes can go with each dice outcome

3 × 8 = 24

6. **12 outcomes**

Each of the spinner's outcomes can go with each dice outcome

2 × 6 = 12

7. **1/4**

A 4 × 4 grid gives 16 equally likely outcomes; 4 of them work

P = 4/16 = 1/4

8. **1/6**

A 6 × 6 grid gives 36 equally likely outcomes; 6 of them work

P = 6/36 = 1/6

9. **11/36**

A 6 × 6 grid gives 36 equally likely outcomes; 11 of them work

P = 11/36 = 11/36

10. **1/8**

16 equally likely outcomes, 2 successful

P = 2/16 = 1/8