MEMORANDUM

Name: ..... Class: .....

Date: .....

MARK ____ / 16

Answer all questions. Show all your working — marks are awarded for method as well as the final answer. **Teacher copy: accept any correct equivalent method.**

1 A bag has 3 red and 5 blue balls. P(red)? *(single)* (1)

$\frac{3}{8}$ ✓ (1)

2 P(rolling a number greater than 4 on a die)? *(single)* (2)

5, 6 → $\frac{2}{6} = \frac{1}{3}$ ✓✓ (2)

3 A bag has 2 red, 3 blue, 5 yellow. P(yellow)? *(single)* (1)

$\frac{5}{10} = \frac{1}{2}$ ✓ (1)

4 If P(win) = 0,35, find P(not win). *(complement)* (1)

$1 - 0{,}35 = \mathbf{0{,}65}$ ✓ (1)

5 P(not rolling a 6 on a die)? *(complement)* (1)

$1 - \frac{1}{6} = \frac{5}{6}$ ✓ (1)

6 A spinner is 4 equal colours. P(not green)? *(complement)* (1)

$1 - \frac{1}{4} = \frac{3}{4}$ ✓ (1)

7 A die is rolled 60 times; a 3 comes up 12 times. Relative frequency? *(rel. freq.)* (2)

$\frac{12}{60} = \mathbf{0{,}2}$ ✓✓ (2)

8 Two coins are tossed. P(one head and one tail)? *(two events)* (3)

HT or TH → $\frac{2}{4} = \frac{1}{2}$ ✓✓✓ (3)

9 Two coins are tossed. P(no heads)? *(two events)* **(2)**

> Only TT → $\frac{1}{4}$ ✓✓ (2)

10 P(drawing a vowel) from the letters of MATHS? *(single)* **(2)**

> Only A → $\frac{1}{5}$ ✓✓ (2)

TOTAL: 16 marks

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