ENGLAND GCSE MATHS OCR HIGHER · UNIT 12 · 10 QUESTIONS

Probability — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A box contains 20 eggs. 4 eggs are cracked. The probability of picking a cracked egg is**

- **A** $\frac{1}{6}$
- **B** $\frac{4}{5}$
- **C** $\frac{1}{4}$
- **D** $\frac{1}{5}$

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2 **A fruit bowl contains 3 lemons and 10 apples. The probability of picking a lemon is**

- **A** $\frac{3}{13}$
- **B** $\frac{1}{5}$
- **C** $\frac{4}{13}$
- **D** $\frac{10}{13}$

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3 **The probability of rain on Saturday is 0.5. If it rains, the probability a passenger train is late is 0.6. If it does not rain, the probability the train is late is 0.3. The probability the train is late is**

- **A** 0.15
- **B** 0.45
- **C** 0.3
- **D** 0.55

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4 The probability of rain is 0.6. The probability of no rain is

- **A** 0.6
- **B** 0.5
- **C** 0.3
- **D** 0.4

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5 A bag has 4 red and 5 blue counters. Two are drawn without replacement. The probability both are red is

- **A** $\frac{5}{18}$
- **B** $\frac{16}{81}$
- **C** $\frac{1}{6}$
- **D** $\frac{4}{9}$

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6 **An ice cream cone is chosen at random from 10 cones: 3 vanilla and 7 chocolate. The probability it is vanilla is**

- **A** $\frac{7}{10}$
- **B** $\frac{2}{5}$
- **C** $\frac{1}{4}$
- **D** $\frac{3}{10}$

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7 **In a class of 30, 15 are girls and 15 are boys. 8 girls and 6 boys wear glasses. The probability that a student chosen at random is a girl who wears glasses is**

- **A** $\frac{7}{15}$
- **B** $\frac{8}{15}$
- **C** $\frac{1}{5}$
- **D** $\frac{4}{15}$

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8 A bag has 5 red and 3 blue marbles. A red marble is taken out. The probability the next marble is red is

- **A** $\frac{4}{7}$
- **B** $\frac{5}{8}$
- **C** $\frac{3}{7}$
- **D** $\frac{1}{2}$

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9 P(A) = 0.5, P(B) = 0.2, P(A and B) = 0.15. P(A or B) is

- **A** 0.7
- **B** 0.1
- **C** 0.65
- **D** 0.55

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10 **The probability of rain is 0.8. The probability of no rain is**

A 0.8

B 0.2

C 0.3

D 0.1

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ANSWER KEY

1.	D	**5.**	C	**9.**	D
2.	A	**6.**	D	**10.**	B
3.	B	**7.**	D		
4.	D	**8.**	A		

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