ENGLAND GCSE MATHS OCR FOUNDATION · 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 bag contains 3 red glass marbles and 2 blue glass marbles. The probability of picking a red marble is**

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

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2 **A fruit bowl contains 4 lemons and 10 apples. The probability of picking a lemon is**

- **A** $\frac{2}{7}$
- **B** $\frac{5}{14}$
- **C** $\frac{5}{7}$
- **D** $\frac{1}{4}$

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3 **An ice cream cone is chosen at random from 12 cones: 4 vanilla and 8 chocolate. The probability it is vanilla is**

- **A** $\frac{2}{3}$
- **B** $\frac{2}{7}$
- **C** $\frac{1}{3}$
- **D** $\frac{5}{12}$

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4 **A box contains 24 eggs. 4 eggs are cracked. The probability of picking a cracked egg is**

- **A** $\frac{5}{24}$
- **B** $\frac{5}{6}$
- **C** $\frac{1}{6}$
- **D** $\frac{1}{7}$

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5 **A shelf has 8 hardcover books: 2 red and 6 blue. The probability of picking a red book is**

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

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6 **Two dice are rolled. The probability of a total of 6 is**

- **A** $\frac{5}{36}$
- **B** $\frac{7}{36}$
- **C** $\frac{1}{6}$
- **D** $\frac{1}{9}$

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7 **P(A) = 0.4, P(B) = 0.2, P(A and B) = 0.2. P(A or B) is**

- **A** 0.08
- **B** 0.5
- **C** 0.6
- **D** 0.4

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8 **A coin is tossed 50 times. It lands on heads 31 times. The relative frequency of heads is**

A 0.57

B 0.67

C 0.62

D 0.38

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9 **The probability of rain is 0.3. The probability of no rain is**

A 0.3

B 0.8

C 0.6

D 0.7

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10 **P(A) = 0.5, P(B) = 0.4, P(A and B) = 0.1. P(A or B) is**

A 0.8

B 0.2

C 0.9

D 1

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ANSWER KEY

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

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