ENGLAND GCSE MATHS EDEXCEL 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 shelf has 8 hardcover books: 2 red and 6 blue. The probability of picking a red book is**

A $\frac{3}{4}$

B $\frac{1}{4}$

C $\frac{1}{5}$

D $\frac{3}{8}$

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2 **A box holds 16 eggs. 6 eggs are cracked. The probability of picking a cracked egg at random is**

- **A** $\frac{3}{8}$
- **B** $\frac{3}{10}$
- **C** $\frac{7}{16}$
- **D** $\frac{5}{8}$

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3 **The probability of rain is 0.7. The probability of no rain is**

- **A** 0.2
- **B** 0.3
- **C** 0.7
- **D** 0.4

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4 **The probability of rain on Saturday is 0.4. If it rains, the probability a passenger train is late is 0.7. If it does not rain, the probability the train is late is 0.3. The probability the train is late is**

- A 0.56
- B 0.28
- C 0.46
- D 0.18

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5 **A coin is tossed 100 times. It lands on heads 48 times. The relative frequency of heads is**

- A 0.53
- B 0.52
- C 0.48
- D 0.43

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6 **P(A) = 0.3, P(B) = 0.4, P(A and B) = 0.15. P(A or B) is**

- A 0.7
- B 0.65
- C 0.55
- D 0.12

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7 **In a class of 30, 18 are girls and 12 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 $\frac{4}{15}$
- C $\frac{1}{5}$
- D $\frac{4}{9}$

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8 The probability of rain is 0.2. The probability of no rain is

- A 0.8
- B 0.9
- C 0.7
- D 0.2

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9 An ice cream cone is chosen at random from 11 cones: 4 vanilla and 7 chocolate. The probability it is vanilla is

- A $\frac{4}{11}$
- B $\frac{4}{13}$
- C $\frac{5}{11}$
- D $\frac{7}{11}$

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10 **A coin is tossed 200 times. It lands on heads 91 times. The relative frequency of heads is**

A 0.505

B 0.545

C 0.455

D 0.405

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ANSWER KEY

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

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