ENGLAND GCSE MATHS EDEXCEL FOUNDATION · UNIT 12 · 25 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 fruit bowl contains 3 lemons and 8 apples. The probability of picking a lemon is**

A $\frac{8}{11}$

B $\frac{4}{11}$

C $\frac{3}{11}$

D $\frac{3}{13}$

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2 **A bag holds 6 red glass marbles and 2 blue glass marbles. The probability of picking a red marble at random is**

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

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3 **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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4 A box holds 20 eggs. 5 eggs are cracked. The probability of picking a cracked egg at random is

- **A** $\frac{5}{24}$
- **B** $\frac{3}{4}$
- **C** $\frac{3}{10}$
- **D** $\frac{1}{4}$

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5 A shelf has 7 hardcover books: 2 red and 5 blue. The probability of picking a red book is

- **A** $\frac{5}{7}$
- **B** $\frac{2}{9}$
- **C** $\frac{2}{7}$
- **D** $\frac{3}{7}$

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6 Two silver coins are flipped. The probability of two heads is

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

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7 A fair six-sided die is thrown once. The probability of scoring a 4 is

- A $\frac{1}{6}$
- B $\frac{1}{3}$
- C $\frac{1}{2}$
- D $\frac{1}{4}$

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8 **Two dice are rolled. The probability of a total of 9 is**

- **A** $\frac{1}{12}$
- **B** $\frac{1}{6}$
- **C** $\frac{1}{9}$
- **D** $\frac{5}{36}$

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9 **P(A) = 0.3, P(B) = 0.3, P(A and B) = 0.2. P(A or B) is**

- **A** 0.4
- **B** 0.5
- **C** 0.6
- **D** 0.09

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10 **A coin is tossed 50 times. It lands on heads 23 times. The relative frequency of heads is**

- A 0.41
- B 0.46
- C 0.51
- D 0.54

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11 **The probability of rain is 0.2. The probability of no rain is**

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

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12 A fair coin is tossed once. The probability of getting a head is

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

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13 Two dice are rolled. The probability of a total of 5 is

- **A** $\frac{1}{6}$
- **B** $\frac{5}{36}$
- **C** $\frac{1}{9}$
- **D** $\frac{1}{12}$

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

A 0.7

B 0.55

C 0.12

D 0.65

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15 **A coin is tossed 100 times. It lands on heads 63 times. The relative frequency of heads is**

A 0.63

B 0.37

C 0.68

D 0.58

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16 The probability of rain is 0.3. The probability of no rain is

A 0.6

B 0.3

C 0.7

D 0.8

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17 Two dice are rolled. The probability of a total of 8 is

A $\frac{5}{36}$

B $\frac{1}{9}$

C $\frac{7}{36}$

D $\frac{1}{6}$

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18 **P(A) = 0.3, P(B) = 0.3, P(A and B) = 0.1. P(A or B) is**

A 0.7

B 0.5

C 0.09

D 0.6

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

A 0.53

B 0.43

C 0.48

D 0.52

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20 **The probability of rain is 0.6. The probability of no rain is**

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

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

- A 0.16
- B 0.8
- C 0.7
- D 0.9

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22 **A coin is tossed 100 times. It lands on heads 37 times. The relative frequency of heads is**

- A 0.42
- B 0.63
- C 0.37
- D 0.32

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23 **P(A) = 0.4, P(B) = 0.2, P(A and B) = 0.1. P(A or B) is**

- A 0.6
- B 0.7
- C 0.5
- D 0.08

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24 The probability of rain is 0.7. The probability of no rain is

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

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

- A 0.1
- B 0.5
- C 0.7
- D 0.6

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ANSWER KEY

1.	C	**10.**	B	**19.**	C
2.	B	**11.**	B	**20.**	D
3.	A	**12.**	D	**21.**	C
4.	D	**13.**	C	**22.**	C
5.	C	**14.**	B	**23.**	C
6.	D	**15.**	A	**24.**	C
7.	A	**16.**	C	**25.**	B
8.	C	**17.**	A		
9.	A	**18.**	B		

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