ENGLAND GCSE MATHS AQA 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 **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 0.1. The probability the train is late is**

- A 0.35
- B 0.3
- C 0.45
- D 0.05

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2 **A shelf has 8 hardcover books: 3 red and 5 blue. The probability of picking a red book is**

- **A** $\frac{3}{8}$
- **B** $\frac{1}{2}$
- **C** $\frac{5}{8}$
- **D** $\frac{3}{10}$

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3 **A box contains 12 eggs. 5 eggs are cracked. The probability of picking a cracked egg is**

- **A** $\frac{5}{12}$
- **B** $\frac{7}{12}$
- **C** $\frac{5}{16}$
- **D** $\frac{1}{2}$

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4 In a class of 30, 18 are girls and 12 are boys. 10 girls and 5 boys wear glasses. The probability that a student chosen at random is a girl who wears glasses is

- **A** $\frac{1}{2}$
- **B** $\frac{1}{3}$
- **C** $\frac{1}{6}$
- **D** $\frac{5}{9}$

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5 A bag contains 6 red glass marbles and 2 blue glass marbles. The probability of picking a red marble is

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

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6 P(A) = 0.5, P(B) = 0.3, P(A and B) = 0.1. P(A or B) is

- A 0.9
- B 0.7
- C 0.8
- D 0.15

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7 A fruit bowl contains 3 lemons and 8 apples. The probability of picking a lemon is

- A $\frac{3}{11}$
- B $\frac{4}{11}$
- C $\frac{3}{13}$
- D $\frac{8}{11}$

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

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

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

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

A 0.3

B 0.1

C 0.2

D 0.8

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ANSWER KEY

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

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