ALBERTA MATH 30-3 · UNIT 5 · 10 QUESTIONS

Statistics and 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 graph shows customers served each week for four weeks. The mean number of customers per week is**

- A 45
- B 55
- C 50
- D 200

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2 **A data set is 10, 12, 13, 14, and 100 . If the value 100 is removed, what happens?**

- A The mean and the median both stay exactly the same.
- B The mean drops a little, and the median drops a lot.
- C The mean stays the same, and the median drops a lot.
- D The mean drops a lot, and the median changes only slightly.

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3 **A school fair raffle sells 100 tickets for one prize of $50 . One ticket is bought. The expected winnings from the ticket are**

- A $0.50
- B $50
- C $5
- D $1

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4 **Work shirt sizes ordered were S, M, M, L, M, S, XL, and M . The mode shirt size is**

- A S
- B M
- C L
- D XL

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5 **The mean of four numbers is 15 . Three of the numbers are 12, 16, and 14 . The fourth number is**

- A 14
- B 16
- C 18
- D 20

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6 **The odds against winning a prize are 7:2 . The probability of winning the prize is**

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

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7 **Commute times in minutes were 20, 25, 22, 30, 28, 35, and 24 . The median commute time is**

A 26.3 minutes

B 25 minutes

C 24 minutes

D 28 minutes

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8 **Forklift test scores were 55, 60, 62, 68, 71, 75, 78, 83, 88, and 94 . The percentile rank of a score of 78 is**

A 65

B 60

C 70

D 78

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9 **A repair costs $200 . The chance of needing the repair in one year is 10% . A one year warranty costs $30 . Which decision is supported by the expected value?**

- A The expected repair cost is $200, so buy the warranty.
- B The expected repair cost is $30, so the warranty breaks even.
- C The expected repair cost is $20, which is less than $30, so the warranty is not worth it on average.
- D The expected repair cost is $50, so buy the warranty.

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10 **A game costs $2 to play. A die is rolled: win $12 for a 6, win $6 for a 5, and win nothing otherwise. The expected net gain from one play is**

- A $3
- B $0
- C $2
- D $1

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ANSWER KEY

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

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