BRITISH COLUMBIA FOUNDATIONS OF MATHEMATICS 11 (MFOM-11) · UNIT D · 25 QUESTIONS

Statistics and Financial Literacy — 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 mean of the data 4, 6, 8, 10 is**

- **A** 7
- **B** 6
- **C** 8
- **D** 28

Understand It with Pulse | Flag a mistake

2 **The median of the data 3, 5, 7, 9, 11 is**

- A 5
- B 7
- C 9
- D 8

Understand It with Pulse | Flag a mistake

3 **The mode of the data 2, 4, 4, 5, 7, 7, 7, 9 is**

- A 4
- B 7
- C 5
- D 2

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4 **The range of the data 12, 18, 25, 31, 40 is**

A 28

B 25

C 40

D 12

Understand It with Pulse | Flag a mistake

5 **For a normal distribution with mean 100 and standard deviation 15, about 68% of the data lie between**



A 85 and 115

B 70 and 130

C 100 and 115

D 55 and 145

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6 **For a normal distribution with mean 100 and standard deviation 15, about 95% of the data lie between**

- A 85 and 115
- B 70 and 130
- C 55 and 145
- D 100 and 130

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7 **For a normal distribution with mean 100 and standard deviation 15, the z-score of the value 130 is**

- A 1
- B 2
- C 3
- D 30

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8 About what percent of normal data lie within three standard deviations of the mean?

- A 68%
- B 95%
- C 99.7%
- D 50%

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9 A sample mean is 50 with a margin of error of 4. The confidence interval is

- A 46 to 54
- B 50 to 54
- C 46 to 50
- D 44 to 56

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10 **Increasing the confidence level of an interval, with the same sample, generally makes the interval**

A wider

B narrower

C unchanged

D centred at zero

Understand It with Pulse | Flag a mistake

11 **Which sampling method is most likely to give a representative sample of a whole school?**



A asking only students in one class

B asking only students in the cafeteria at lunch

C choosing students at random from the school list

D asking only volunteers online

Understand It with Pulse | Flag a mistake

12 **A survey that asks only people who phone in to a radio show is most likely to suffer from**

A sampling bias

B perfect accuracy

C a larger sample size

D a normal distribution

Understand It with Pulse | Flag a mistake

13 **Simple interest on $2000 at 4% per year for 3 years is**



A $80

B $240

C $320

D $2240

Understand It with Pulse | Flag a mistake

14 **Compound interest: $1000 invested at 5% per year, compounded annually, for 2 years grows to**

A $1100.00

B $1102.50

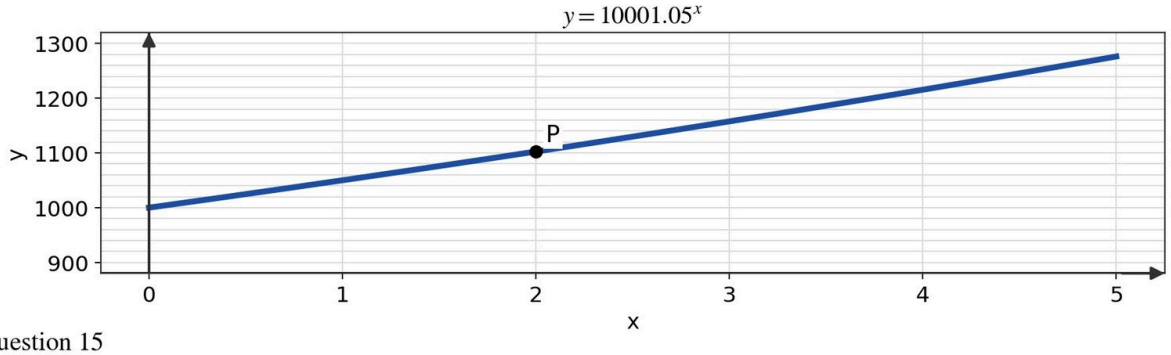
C $1050.00

D $1150.00

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15

The graph shows the growth of $1000 at 5% per year, compounded annually. The value after 2 years, in dollars, is



Question 15

The graph shows the growth of $1000 at 5% per year, compounded annually. The value after 2 years, in dollars, is

A) 1102.50

B) 1100.00

C) 1050.00

D) 1000.00

A 1102.50

B 1100.00

C 1050.00

D 1000.00

Understand It with Pulse

Flag a mistake

16 **A credit card balance of $1000 charges 2% interest in one month. The interest charged that month, in dollars, is**



A 2

B 20

C 200

D 1020

Understand It with Pulse | Flag a mistake

17 **A house costs $400000. A 20% down payment is**



A $80000

B $20000

C $40000

D $320000

Understand It with Pulse | Flag a mistake

18 **Using the rule of 72, an investment earning 8% per year takes about how many years to double?**

- A 6
- B 8
- C 9
- D 12

Understand It with Pulse | Flag a mistake

19 **$1200 invested at 12% per year, compounded monthly, for 1 year grows to about**

- A $1344.00
- B $1352.19
- C $1320.00
- D $1440.00

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20 **The polyline shows a savings balance rising from $1000. The balance at year 1, in dollars, is**

- A 1000
- B 1050
- C 1100
- D 950

Understand It with Pulse | Flag a mistake

21 **A loan of $5000 at 6% simple interest per year for 2 years costs how much interest?**

- A $300
- B $600
- C $900
- D $5600

Understand It with Pulse | Flag a mistake

22 **A house costs $300000 and the buyer pays 20% down. The amount borrowed is**



A $240000

B $60000

C $300000

D $360000

Understand It with Pulse | Flag a mistake

23 **The median of the data 6, 8, 10, 12 is**

- A 8
- B 9
- C 10
- D 36

Understand It with Pulse | Flag a mistake

24 **For a normal distribution, the mean, median, and mode are**

- A all equal
- B all different
- C mean greater than median
- D mode greater than mean

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25

A larger sample size, with the same confidence level, generally makes a confidence interval

A wider

B narrower

C unchanged

D centred at zero

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Flag a mistake

ANSWER KEY

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

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