FINAL EXAM - PRACTICE TEST | NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 110 · FINAL EXAM · 50 QUESTIONS

Final Exam — 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 right triangle has legs 6 and 8. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A scale factor of 2 enlarges a solid of volume 20 cm³. The enlarged volume, in cm³, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A worker earns 180 dollars in 6 hours. At the same rate, earnings for 10 hours, in dollars, are**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Monthly income is 2400 dollars and monthly expenses are 1900 dollars. The monthly surplus, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Simple interest on 500 dollars at 6 percent per year for 2 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A ladder leans at an angle of elevation of 45 degrees. The horizontal distance from the wall is 6 metres. The height reached, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A model car at 1 to 24 scale is**

A smaller than the real car

B larger than the real car

C the same size as the real car

D twice the real car

Understand It with Pulse | Flag a mistake

8 **If a car travels 120 kilometres in 2 hours at constant speed, its rate, in kilometres per hour, is 60. This rate is also called its**

A slope on a distance time graph

B area on a distance time graph

C intercept

D maximum value

Understand It with Pulse | Flag a mistake

9 **A renter pays 100 dollars per month for utilities plus 800 dollars rent. Total monthly housing cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An investment rises from 100 dollars to 120 dollars. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **If the tangent of an angle is 1, the angle is**

A 30 degrees

B 60 degrees

C 90 degrees

D 45 degrees

Understand It with Pulse | Flag a mistake

12 **A scale factor of 3 enlarges a shape of area 12 cm². The enlarged area, in cm², is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **If 4 items cost 20 dollars, then 5 items at the same unit price cost, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **If expenses exceed income, the budget has a**

A surplus

B deficit

C balance

D profit

Understand It with Pulse | Flag a mistake

15 **A portfolio holds 200 dollars in stocks, 300 dollars in bonds, and 700 dollars in cash. Its total value, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The angle of depression is measured from the**

A vertical upward

B hypotenuse

C horizontal downward

D adjacent side

Understand It with Pulse | Flag a mistake

17 **A scale drawing uses 1 centimetre for every 3 metres. A wall 18 metres long is drawn as a line, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A ramp rises 12 metres over a horizontal run of 4 metres. Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Monthly income is 3000 dollars and monthly expenses are 2600 dollars. The monthly surplus, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A higher risk investment usually offers the possibility of a**

A guaranteed return

B lower return always

C zero return always

D higher return

Understand It with Pulse | Flag a mistake

21 **A right triangle has opposite side 5 and adjacent side 12. Its tangent ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A scale model is built at a scale of 1 to 25. A model length of 4 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A ramp rises 20 metres over a horizontal run of 10 metres. Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Monthly income is 2000 dollars and monthly expenses are 1750 dollars. The monthly surplus, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **Simple interest on 4000 dollars at 3 percent per year for 2 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A right triangle has legs 5 and 12. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A scale model is built at a scale of 1 to 50. A model length of 8 centimetres represents a real length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **A ramp rises 15 metres over a horizontal run of 5 metres. Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A house costs 120000 dollars. A down payment of 25 percent of the price is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **An investment rises from 500 dollars to 650 dollars. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A right triangle has opposite side 7 and adjacent side 24. Its tangent ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A scale of 1 to 100 means 1 centimetre on the drawing represents**

- A 1 centimetre in real life
- B 100 metres in real life
- C 100 centimetres in real life
- D 10 centimetres in real life

Understand It with Pulse | Flag a mistake

33 **If 2 items cost 14 dollars, then 7 items at the same unit price cost, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **Monthly income is 4200 dollars and monthly expenses are 3900 dollars. The monthly surplus, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **Simple interest on 3000 dollars at 5 percent per year for 2 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A right triangle has opposite side 7 and hypotenuse 25. Its sine ratio, rounded to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A drawing uses a scale of 1 to 25. A real length of 150 centimetres is drawn as a length, in centimetres, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A line passes through points with coordinates 0 comma 0 and 4 comma 12. Its slope is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **Monthly income is 2200 dollars and monthly expenses are 2000 dollars. The monthly surplus, in dollars, is**

ANSWER

Understand It with Pulse | Flag a mistake

40 **Numerical reasoning in finance includes checking whether an answer is**

A written in ink

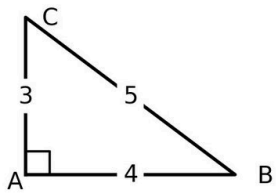
B reasonable in size

C rounded to cents always

D a whole number always

Understand It with Pulse | Flag a mistake

41 **The diagram shows a right triangle with side AB 4, side AC 3, and hypotenuse BC 5. The sine of angle B is**



A $\frac{3}{5}$

B $\frac{4}{5}$

C $\frac{3}{4}$

D $\frac{4}{3}$

Understand It with Pulse | Flag a mistake

42 **When a solid is enlarged by scale factor 2, its volume is multiplied by**

A 2

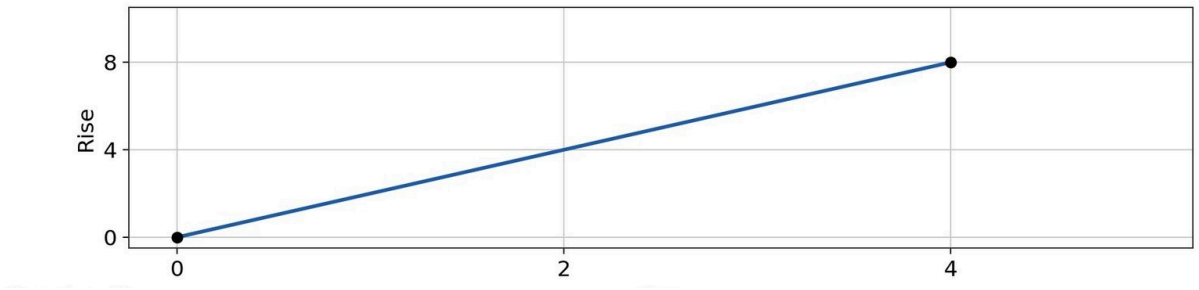
B 8

C 4

D 6

Understand It with Pulse | Flag a mistake

43 **The graph shows a line through the origin and the point 4 comma 8. The slope of the line is**



A 2

B 4

C 8

D 0.5

Understand It with Pulse | Flag a mistake

44 **Renting a home usually avoids the cost of**

A monthly payments

B utility bills

C a large down payment

D insurance

Understand It with Pulse | Flag a mistake

45 **Simple interest on 6000 dollars at 2 percent per year for 3 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A right triangle has legs 18 and 24. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A drawing uses a scale of 1 to 100. A real length of 1000 centimetres is drawn as a length, in centimetres, of**

ANSWER

Understand It with Pulse | Flag a mistake

48 **A line passes through points with coordinates 0 comma 1 and 5 comma 21. Its slope is**

ANSWER

Understand It with Pulse | Flag a mistake

49 **Monthly income is 3200 dollars and monthly expenses are 2800 dollars. The monthly surplus, in dollars, is**

ANSWER

Understand It with Pulse | Flag a mistake

50 **A stock price falls from 100 dollars to 75 dollars. The percent decrease is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	10	**18.**	3	**35.**	300
2.	160	**19.**	400	**36.**	0.28
3.	300	**20.**	D	**37.**	6
4.	500	**21.**	0.42	**38.**	3
5.	60	**22.**	100	**39.**	200
6.	6	**23.**	2	**40.**	B
7.	A	**24.**	250	**41.**	A
8.	A	**25.**	240	**42.**	B
9.	900	**26.**	13	**43.**	A
10.	20	**27.**	400	**44.**	C
11.	D	**28.**	3	**45.**	360
12.	108	**29.**	30000	**46.**	30
13.	25	**30.**	30	**47.**	10
14.	B	**31.**	0.29	**48.**	4
15.	1200	**32.**	C	**49.**	400
16.	C	**33.**	49	**50.**	25
17.	6	**34.**	300		

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