FINAL EXAM - PRACTICE TEST | NEW BRUNSWICK FINANCIAL AND WORKPLACE MATHEMATICS 120 · 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 5 and 12. The length of the hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A scale model uses a scale of 1 to 4. A model length of 6 cm represents an actual length in centimetres of**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The values 4 and 12 are in direct proportion with a constant of proportionality of 3. If the first value is 8, the second value is**

- A 11
- B 16
- C 24
- D 32

Understand It with Pulse | Flag a mistake

4 **A monthly income is 2600 dollars and monthly expenses total 2100 dollars. The monthly amount left over in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Simple interest on 1500 dollars at 6 percent per year for 2 years in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The hypotenuse of a right triangle with legs 11 and 60 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A map uses a scale of 1 to 25000. A distance of 4 centimetres on the map is, in real life, in kilometres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The slope of the line through (0,2) and (5,17) is**

ANSWER _____

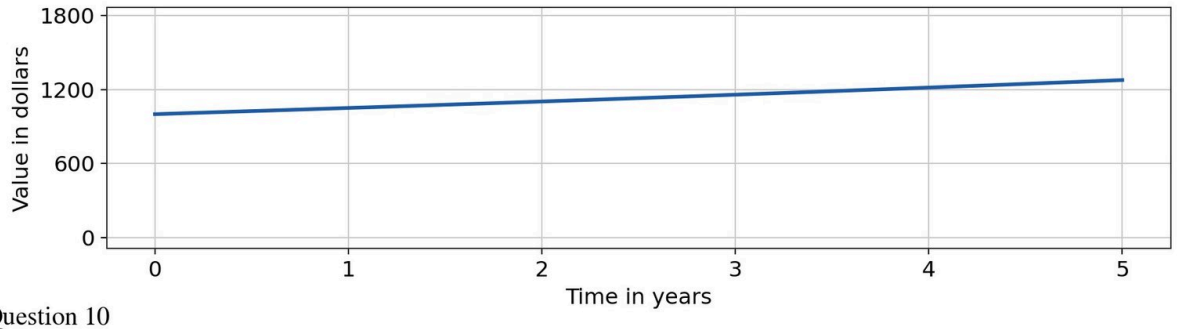
Understand It with Pulse | Flag a mistake

9 **A budget rule allows 30 percent of a 3000 dollar monthly income for housing. The housing allowance in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The graph shows the value of an investment over time. The first whole year in which the value exceeds 1200 dollars is year**



Question 10

The graph shows the value of an investment over time. The first whole year in which the value exceeds 1200 dollars is year

ANSWER

Understand It with Pulse | Flag a mistake

11 **A right triangle has hypotenuse 13 and one leg 5. The length of the other leg is**

ANSWER

Understand It with Pulse | Flag a mistake

12 **A drawing uses a scale of 1 to 5. An actual length of 25 cm is drawn with a length in centimetres of**

ANSWER

Understand It with Pulse | Flag a mistake

13 **A ramp rises 9 m over a horizontal run of 3 m. Its slope as a decimal is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Monthly rent is 1200 dollars, utilities are 200 dollars, and insurance is 100 dollars. The total monthly housing cost in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **An investment of 100 dollars at 5 percent compounded yearly is worth, after 1 year, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **In a right triangle, the hypotenuse is 65 and one leg is 25. The other leg has length**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **A building 30 metres tall is drawn 15 centimetres tall. The scale used is 1 to**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **At a store, 4 notebooks cost 12 dollars. At the same unit price, 7 notebooks cost, in dollars,**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A home costs 300000 dollars with a down payment of 60000 dollars. The mortgage amount in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **An investment grows from 50 dollars to 75 dollars. The percent increase is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **In a right triangle the side opposite angle A is 8 and the side adjacent to angle A is 15. tan A to two decimal places is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A rectangular prism is 4 cm by 4 cm by 3 cm. Its volume in cm^3 is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **If 2 items cost 10 dollars, the cost of 9 items at the same unit price in dollars is**

ANSWER

Understand It with Pulse | Flag a mistake

24 **Renting costs 1500 dollars per month and buying costs 1400 dollars per month. The cheaper option is**

A renting

B they are equal

C buying

D neither option

Understand It with Pulse | Flag a mistake

25 **A portfolio holds investments worth 100, 200, and 300 dollars. The total portfolio value in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

26 **A ramp makes an angle with the ground whose tangent is 0.25. The ramp rises 1 metre over a run of, in metres,**

ANSWER _____

Understand It with Pulse | Flag a mistake

27 **A prism has volume 240 cm³ and a base area of 30 cm² Its height, in centimetres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

28 **Two quantities are in direct proportion. When the first is 4, the second is 12. When the first is 7, the second is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A monthly income is 2800 dollars and monthly expenses total 2300 dollars. The monthly amount left over in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A portfolio is 60 percent stocks and 40 percent bonds. If its total value is 5000 dollars, the value in stocks, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **In a right triangle the side opposite angle A is 8 and the hypotenuse is 17. sin A to two decimal places is**

ANSWER

Understand It with Pulse | Flag a mistake

32 **A rectangular prism is 4 cm by 4 cm by 3 cm. Its surface area in cm² is**

ANSWER

Understand It with Pulse | Flag a mistake

33 **A car travels 240 km in 4 hours at a steady speed. Its speed in kilometres per hour is**

ANSWER

Understand It with Pulse | Flag a mistake

34 **A monthly budget allows 1200 dollars for food but 1080 dollars is spent. The amount under budget in dollars is**

ANSWER

Understand It with Pulse | Flag a mistake

35 **Investments worth 400, 300, and 200 dollars have a mean value in dollars of**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **In a right triangle the side opposite angle A is 15 and the hypotenuse is 17. sin A to two decimal places is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A rectangular prism is 8 cm by 2 cm by 5 cm. Its surface area in cm² is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **A car travels 300 km in 5 hours at a steady speed. Its speed in kilometres per hour is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A monthly income is 3200 dollars and monthly expenses total 2600 dollars. The monthly amount left over in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **An investment of 1000 dollars earns 5 percent simple interest in one year. The interest in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A ladder of length 12 m leans against a wall at 45 degrees to the ground. The height reached up the wall in metres to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A cylinder has radius 4 cm and height 3 cm. Using pi equals 3.14, its volume in cm³ to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **The slope of the line through (1,2) and (4,11) is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A monthly income is 1800 dollars and monthly expenses total 1450 dollars. The monthly amount left over in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

45 **An investment of 3000 dollars earns 3 percent simple interest in one year. The interest in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

46 **A ladder of length 24 m leans against a wall at 30 degrees to the ground. The height reached up the wall in metres to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **A cylinder has radius 6 cm and height 2 cm. Using pi equals 3.14, its volume in cm³ to one decimal place is**

ANSWER _____

Understand It with Pulse | Flag a mistake

48 **For the line y = 2x + 3 , the value of y when x = 4 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **A monthly income is 4000 dollars and monthly expenses total 3100 dollars. The monthly amount left over in dollars is**

ANSWER _____

Understand It with Pulse | Flag a mistake

50 **An investment grows from 500 dollars to 550 dollars in one year. The annual growth rate is**

A 10 percent

B 5 percent

C 15 percent

D 25 percent

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	13	**18.**	21	**35.**	300
2.	24	**19.**	240000	**36.**	0.88
3.	C	**20.**	50	**37.**	132
4.	500	**21.**	0.53	**38.**	60
5.	180	**22.**	48	**39.**	600
6.	61	**23.**	45	**40.**	50
7.	1	**24.**	C	**41.**	8.5
8.	3	**25.**	600	**42.**	150.7
9.	900	**26.**	4	**43.**	3
10.	4	**27.**	8	**44.**	350
11.	12	**28.**	21	**45.**	90
12.	5	**29.**	500	**46.**	12
13.	3	**30.**	3000	**47.**	226.1
14.	1500	**31.**	0.47	**48.**	11
15.	105	**32.**	80	**49.**	900
16.	60	**33.**	60	**50.**	A
17.	200	**34.**	120		

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