PRINCE EDWARD ISLAND APPRENTICESHIP AND WORKPLACE MATHEMATICS 11 · 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 rectangular prism has length 5 centimetres, width 3 centimetres, and height 2 centimetres. What is its surface area in cm²**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A right triangle has legs 3 metres and 4 metres. What is the length of the hypotenuse in metres**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An amount of 1000 dollars is invested at 5 percent per year, compounded annually, for 2 years. What is the final amount in dollars, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A recipe uses direct proportion with constant 4. If one batch needs 5 units of an ingredient scaled by the constant, what is the scaled amount**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A toolbox holds 8 tools of equal size, and 3 of them are wrenches. If one tool is chosen at random, what is the probability of choosing a wrench, as a decimal to three decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A cube has how many faces**

A 6

B 4

C 8

D 12

Understand It with Pulse | Flag a mistake

7 **A right triangle with hypotenuse 10 and one leg 6 has the other leg equal to**

- A 4
- B 16
- C 12
- D 8

Understand It with Pulse | Flag a mistake

8 **A higher compounding frequency, with the same annual rate, gives a**

- A smaller final amount
- B same amount
- C zero amount
- D larger final amount

Understand It with Pulse | Flag a mistake

9 **A ratio of 3 to 2 can also be written as**

A 3:2

B 2:3

C 5

D 1.5 only

Understand It with Pulse | Flag a mistake

10 **A data set of 5 values has a median that is the**

A second value

B fourth value

C first value

D third value when ordered

Understand It with Pulse | Flag a mistake

11 **A pyramid has what fraction of the volume of a prism with the same base and height**

A one half

B twice

C one third

D the same

Understand It with Pulse | Flag a mistake

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

A 1 centimetre in real life

B 100 centimetres in real life

C 100 metres in real life

D 10 centimetres in real life

Understand It with Pulse | Flag a mistake

13 **An emergency fund is money set aside for**

A planned holidays only

B tax only

C unexpected expenses

D interest

Understand It with Pulse | Flag a mistake

14 **A car uses 12 litres of fuel to travel 150 km. The unit rate is**

A 12 L per km

B 0.08 L per km

C 150 km per L

D 12.5 km per L

Understand It with Pulse | Flag a mistake

15 **A sample should be chosen so that it**

A includes only volunteers

B includes only extremes

C is as small as possible

D represents the population fairly

Understand It with Pulse | Flag a mistake

16 **Doubling every side length of a square multiplies its area by**

A 2

B 8

C 6

D 4

Understand It with Pulse | Flag a mistake

17 **In a right triangle, the tangent of an angle is opposite divided by**

A hypotenuse

B longest side

C adjacent

D perimeter

Understand It with Pulse | Flag a mistake

18 **Compounding annually means interest is added**

A once per month

B once per year

C once per day

D never

Understand It with Pulse | Flag a mistake

19 **A direct proportion always passes through the**

A highest point

B y intercept only

C origin

D midpoint only

Understand It with Pulse | Flag a mistake

20 **Collecting data from every worker in a shop is called a**

A census

B sample

C survey only

D experiment

Understand It with Pulse | Flag a mistake

21 **A cylinder has radius 3 centimetres and height 4 centimetres. Using 3.14 for pi, what is its volume in cm³, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **A ramp forms a right triangle with vertical rise 6 metres and sloped length 10 metres. What is the sine of the ramp angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A worker earns 20 dollars per hour and works 40 hours in a week. What are the gross weekly earnings in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A ramp rises from point (1, 3) to point (4, 12). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A crew records weekly hours of 35, 38, 40, 42, 45. What is the range of weekly hours**

ANSWER

Understand It with Pulse | Flag a mistake

26 **A cylinder has radius 2 centimetres and height 7 centimetres. Using 3.14 for pi, what is its volume in cm³, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

27 **A ramp forms a right triangle with vertical rise 9 metres and sloped length 15 metres. What is the sine of the ramp angle, to two decimal places**

ANSWER

Understand It with Pulse | Flag a mistake

28 **A worker earns 16 dollars per hour and works 30 hours in a week. What are the gross weekly earnings in dollars**

ANSWER

Understand It with Pulse | Flag a mistake

29 **A ramp rises from point (0, 5) to point (5, 20). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

30 **A crew records weekly hours of 12, 15, 18, 21, 24. What is the range of weekly hours**

ANSWER _____

Understand It with Pulse | Flag a mistake

31 **A cylinder has radius 4 centimetres and height 3 centimetres. Using 3.14 for pi, what is its volume in cm³, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

32 **A ramp forms a right triangle with vertical rise 12 metres and sloped length 13 metres. What is the sine of the ramp angle, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

33 **A worker earns 22 dollars per hour and works 38 hours in a week. What are the gross weekly earnings in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **A ramp rises from point (2, 2) to point (5, 11). What is the slope of the ramp**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A crew records weekly hours of 28, 30, 32, 34, 36. What is the range of weekly hours**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A rectangular prism has length 7 centimetres, width 2 centimetres, and height 3 centimetres. What is its volume in cm^3**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **A scale of 1 to 25 is used. A line drawn 6 centimetres long represents a real length of how many centimetres**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **An amount of 800 dollars is invested at 6 percent per year, compounded annually, for 2 years. What is the interest earned in dollars, to two decimal places**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A total of 80 dollars is shared in equal parts among 8 workers. How many dollars does each worker receive**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **Five daily wages in dollars are 28, 30, 32, 34, 36. What is the median daily wage in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **The lateral area of a cylinder is**

- A $2\pi r h$
- B πr^2
- C $2\pi r$
- D $\pi r h$

Understand It with Pulse | Flag a mistake

42 **The angle of elevation is measured from the**

- A horizontal upward
- B vertical downward
- C ground only
- D hypotenuse

Understand It with Pulse | Flag a mistake

43 **Overtime pay is usually paid at a rate**

- A higher than the regular rate
- B lower than the regular rate
- C equal always
- D zero

Understand It with Pulse | Flag a mistake

44 **The fraction $\frac{3}{4}$ as a percent is**

- A 34 percent
- B 75 percent
- C 43 percent
- D 25 percent

Understand It with Pulse | Flag a mistake

45 **The median of 10, 20, 30, 40 is**

A 20

B 25

C 30

D 15

Understand It with Pulse | Flag a mistake

46 **Units for volume are**

A square units

B linear units

C degrees

D cubic units

Understand It with Pulse | Flag a mistake

47 **Trigonometry in a right triangle relates angles to**

A areas only

B ratios of sides

C perimeters only

D volumes

Understand It with Pulse | Flag a mistake

48 **Unit pricing compares products by cost per**

A package

B brand

C store

D unit of measure

Understand It with Pulse | Flag a mistake

49 The y intercept of y = 3x + 2 is

- A 2
- B 3
- C 5
- D 0

Understand It with Pulse | Flag a mistake

50 The range of 8, 14, 22, 30 is

- A 8
- B 30
- C 22
- D 14

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	62	**18.**	B	**35.**	8
2.	5	**19.**	C	**36.**	42
3.	1102.5	**20.**	A	**37.**	150
4.	20	**21.**	113.04	**38.**	98.88
5.	0.375	**22.**	0.6	**39.**	10
6.	A	**23.**	800	**40.**	32
7.	D	**24.**	3	**41.**	A
8.	D	**25.**	10	**42.**	A
9.	A	**26.**	87.92	**43.**	A
10.	D	**27.**	0.6	**44.**	B
11.	C	**28.**	480	**45.**	B
12.	B	**29.**	3	**46.**	D
13.	C	**30.**	12	**47.**	B
14.	B	**31.**	150.72	**48.**	D
15.	D	**32.**	0.92	**49.**	A
16.	D	**33.**	836	**50.**	C
17.	C	**34.**	3		

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