MANITOBA ESSENTIAL MATHEMATICS 30S · 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 **The number of ways to arrange 4 different items in order is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A purchase of 150 dollars has tax of 5 percent. The tax, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A rectangle has length 9 and width 2. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **The median of 6, 8, 11, 13, and 15 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Simple interest on 200 dollars at 5 percent per year for 1 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **In a right triangle with adjacent 4 and hypotenuse 5, the ratio is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The number of ordered pairs that can be formed from 7 different items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Simple interest on 600 dollars at 8 percent per year for 4 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **On a map, 1 unit represents 40 units in real life. A map distance of 8 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An angle measuring more than 90 degrees but less than 180 degrees is an**

A acute angle

B right angle

C reflex angle

D obtuse angle

Understand It with Pulse | Flag a mistake

11 **An item costs 80 dollars and is discounted by 25 percent. Its sale price, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The right triangle has legs 12 and 16 as labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **The number of possible outcomes when flipping a coin 5 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Monthly income is 2900 dollars and monthly expenses are 1300 dollars. The amount left, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **Use pi equals 3.14. A circle has radius 6. Its area, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **The highest or lowest point of a parabola is the**

- A vertex
- B intercept
- C axis
- D root

Understand It with Pulse | Flag a mistake

17 **Simple interest on 1000 dollars at 8 percent per year for 2 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **A right triangle has hypotenuse 52 and one leg 20. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19

In the expression 3x plus 5, the letter x is the

A coefficient

B constant

C variable

D term

Understand It with Pulse | Flag a mistake

20

A straight line graph has a slope that is

Question 20

A straight line graph has a slope that is

A) increasing

B) constant

C) zero always

D) undefined always

A increasing

B constant

C zero always

D undefined always

Understand It with Pulse | Flag a mistake

21 **The distance around a circle is the**

A circumference

B diameter

C radius

D area

Understand It with Pulse | Flag a mistake

22 **In the data set 4, 7, 4, 9, 4, the mode is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A triangle with no sides equal is**

A isosceles

B equilateral

C scalene

D right

Understand It with Pulse | Flag a mistake

24 **A polygon with eight sides is an**

A hexagon

B pentagon

C decagon

D octagon

Understand It with Pulse | Flag a mistake

25 **The slope of a vertical line is**

A zero

B undefined

C one

D negative

Understand It with Pulse | Flag a mistake

26 **The point where a graph crosses the y axis is the**

Question 26

The point where a graph crosses the y axis is the

A) x intercept

B) vertex

C) y intercept

D) origin

A x intercept

B vertex

C y intercept

D origin

Understand It with Pulse | Flag a mistake

27 **A triangle with two sides equal is**

A equilateral

B isosceles

C scalene

D obtuse

Understand It with Pulse | Flag a mistake

28 **The mean of 8, 10, 12, and 14 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

29 **A polygon with five sides is a**

A hexagon

B octagon

C heptagon

D pentagon

Understand It with Pulse | Flag a mistake

30 **The sum of the interior angles of a quadrilateral is**

A 360 degrees

B 180 degrees

C 270 degrees

D 540 degrees

Understand It with Pulse | Flag a mistake

31 The point where a graph crosses the x axis is the

Question 31

The point where a graph crosses the x axis is the

A) y intercept

B) x intercept

C) vertex

D) origin

- A y intercept
- B x intercept
- C vertex
- D origin

Understand It with Pulse | Flag a mistake

32 A triangle with all sides equal is

- A isosceles
- B scalene
- C equilateral
- D right

Understand It with Pulse | Flag a mistake

33 **Use pi equals 3.14. A circle has radius 7. Its area, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **The number of ways to choose 2 items from 6 items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **Monthly income is 2800 dollars and monthly expenses are 1100 dollars. The amount left, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **A right triangle has legs 21 and 72. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The number of ordered pairs that can be formed from 8 different items is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **Simple interest on 900 dollars at 10 percent per year for 5 years is, in dollars**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A triangle has base 10 and height 3. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **A bag has 2 red balls out of 10 balls in total. The probability of drawing red, as a percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **A price rises by 20 percent from 60 dollars. The increase, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **A ladder reaches a wall forming a right triangle with base 10 and height 24. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

43 **The number of possible outcomes when flipping a coin 6 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **Monthly income is 1200 dollars and monthly expenses are 1100 dollars. The amount left, in dollars, is**

ANSWER _____

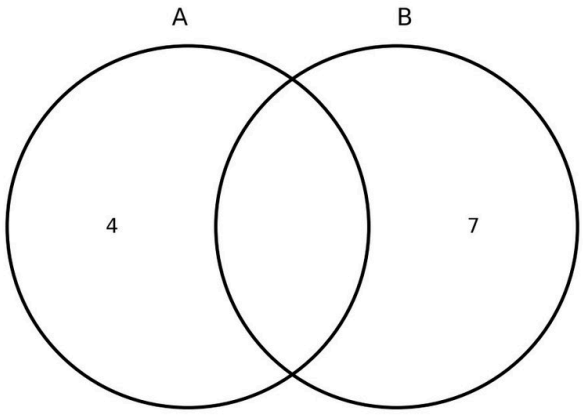
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45 **Half of the diameter of a circle is the**

- **A** circumference
- **B** radius
- **C** chord
- **D** arc

Understand It with Pulse | Flag a mistake

46 **The Venn diagram shows 4 in A only and 7 in B only. There are 13 in total. The number in both sets is**



Question 46

The Venn diagram shows 4 in A only and 7 in B only. There are 13 in total. The number in both sets is

ANSWER _____

Understand It with Pulse | Flag a mistake

47 **The middle value of an ordered data set is the**

A mean

B mode

C range

D median

Understand It with Pulse | Flag a mistake

48 **A right triangle has hypotenuse 13 and one leg 5. The other leg is**

ANSWER _____

Understand It with Pulse | Flag a mistake

49 **The sum of the interior angles of a triangle is**

- A 90 degrees
- B 270 degrees
- C 360 degrees
- D 180 degrees

Understand It with Pulse | Flag a mistake

50 **A polygon with six sides is a**

- A hexagon
- B pentagon
- C octagon
- D decagon

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	24	**18.**	48	**35.**	1700
2.	7	**19.**	C	**36.**	75
3.	18	**20.**	B	**37.**	56
4.	11	**21.**	A	**38.**	450
5.	10	**22.**	4	**39.**	15
6.	0.8	**23.**	C	**40.**	20
7.	42	**24.**	D	**41.**	12
8.	192	**25.**	B	**42.**	26
9.	320	**26.**	C	**43.**	64
10.	D	**27.**	B	**44.**	100
11.	60	**28.**	11	**45.**	B
12.	20	**29.**	D	**46.**	2
13.	32	**30.**	A	**47.**	D
14.	1600	**31.**	B	**48.**	12
15.	113.04	**32.**	C	**49.**	D
16.	A	**33.**	153.86	**50.**	A
17.	160	**34.**	15		

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