MANITOBA ESSENTIAL MATHEMATICS 40S · 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 puzzle asks for the sum of 8 and the product of 8 and 5. That total is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **Monthly income is 2300 dollars and monthly expenses are 1300 dollars. The amount left, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The median of 5, 7, 10, 12, and 14 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A triangle has base 4 and height 8. Its area is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Monthly income is 1100 dollars and monthly expenses are 1300 dollars. The amount left, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A right triangle has legs 12 and 16. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The number of possible outcomes when flipping a coin 2 times is**

ANSWER _____

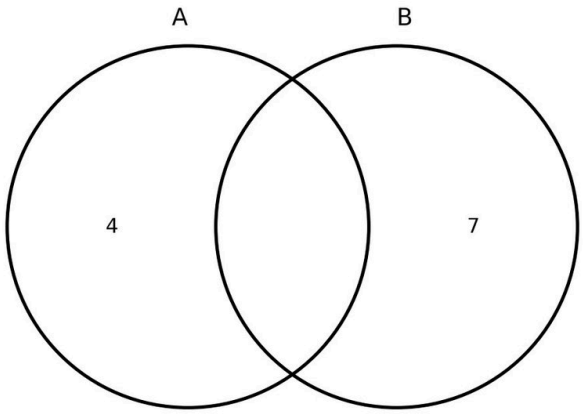
Understand It with Pulse | Flag a mistake

8 **An item has a down payment of 200 dollars and 9 monthly payments of 160 dollars. Its total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

**9** **The Venn diagram shows 4 in A only and 7 in B only. There are 15 in total. The number in both sets is**




Question 9

The Venn diagram shows 4 in A only and 7 in B only. There are 15 in total. The number in both sets is

ANSWER

Understand It with Pulse | Flag a mistake

**10** **A rectangle has length 5 and width 5. Its area is**

ANSWER

Understand It with Pulse | Flag a mistake

11 **A price rises by 30 percent from 80 dollars. The increase, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **The longest side of a right triangle is the**

A adjacent

B hypotenuse

C opposite

D leg

Understand It with Pulse | Flag a mistake

13 **An arithmetic pattern starts at 4 and increases by 2. Term 8 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A purchase of 190 dollars has tax of 5 percent. The tax, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **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

16 **On a map, 1 unit represents 30 units in real life. A map distance of 6 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **An item has a down payment of 400 dollars and 9 monthly payments of 120 dollars. Its total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **In the expression 3x plus 5, the number 3 is the**

A constant

B variable

C solution

D coefficient

Understand It with Pulse | Flag a mistake

19 **The value that makes an equation true is called the**

A solution

B coefficient

C variable

D expression

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 point where a graph crosses the y axis is the

Question 21

The point where a graph crosses the y 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

## 22 The line that divides a parabola into two equal halves is the

- A directrix
- B axis of symmetry
- C asymptote
- D tangent

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 ladder reaches a wall forming a right triangle with base 16 and height 30. The ladder length is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A zero

B one

C undefined

D negative

Understand It with Pulse | Flag a mistake

26 **Two lines that never meet are**

A parallel

B perpendicular

C intersecting

D coincident

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 **In a right triangle, the side opposite the right angle is the**

A adjacent

B opposite side

C hypotenuse

D base

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

ANSWER _____

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 **A bag has 6 red balls out of 12 balls in total. The probability of drawing red, as a percent, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

34 **On a map, 1 unit represents 20 units in real life. A map distance of 4 represents a real distance of**

ANSWER _____

Understand It with Pulse | Flag a mistake

35 **A purchase of 170 dollars has tax of 10 percent. The tax, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

36 **The right triangle shown has its legs labelled. Its hypotenuse is**

ANSWER _____

Understand It with Pulse | Flag a mistake

37 **The number of possible outcomes when flipping a coin 3 times is**

ANSWER _____

Understand It with Pulse | Flag a mistake

38 **An item has a down payment of 250 dollars and 9 monthly payments of 200 dollars. Its total cost, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

39 **A data set ranges from 3 to 20. Its range is**

ANSWER _____

Understand It with Pulse | Flag a mistake

40 **Use pi equals 3.14. A circle has radius 2. Its area, to two decimal places, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

41 **An item costs 220 dollars and is discounted by 30 percent. Its sale price, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

42 **The ratio of circumference to diameter is**

A two

B three

C pi

D the radius

Understand It with Pulse | Flag a mistake

43 **An arithmetic pattern starts at 3 and increases by 4. Term 7 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

44 **A purchase of 210 dollars has tax of 10 percent. The tax, in dollars, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

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** **An angle measuring less than 90 degrees is an**

- A obtuse angle
- B right angle
- C acute angle
- D reflex angle

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 ladder reaches a wall forming a right triangle with base 12 and height 16. The ladder length 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.** | 48 | **18.** | D | **35.** | 17 |
| **2.** | 1000 | **19.** | A | **36.** | 10 |
| **3.** | 10 | **20.** | B | **37.** | 8 |
| **4.** | 16 | **21.** | A | **38.** | 2050 |
| **5.** | -200 | **22.** | B | **39.** | 17 |
| **6.** | 20 | **23.** | C | **40.** | 12.56 |
| **7.** | 4 | **24.** | 34 | **41.** | 154 |
| **8.** | 1640 | **25.** | A | **42.** | C |
| **9.** | 4 | **26.** | A | **43.** | 27 |
| **10.** | 25 | **27.** | B | **44.** | 21 |
| **11.** | 24 | **28.** | C | **45.** | B |
| **12.** | B | **29.** | D | **46.** | C |
| **13.** | 18 | **30.** | 48 | **47.** | D |
| **14.** | 9 | **31.** | B | **48.** | 20 |
| **15.** | 20 | **32.** | C | **49.** | D |
| **16.** | 180 | **33.** | 50 | **50.** | A |
| **17.** | 1480 | **34.** | 80 | | |

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