NORTHWEST TERRITORIES FOUNDATIONS OF MATHEMATICS AND PRE-CALCULUS 10 (MFMP-10) · UNIT A · 10 QUESTIONS

Number, Powers and Roots — 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 value of $81^{1/4}$ is ____.

ANSWER _____

Understand It with Pulse | Flag a mistake

2 When written as a single power, $\frac{7^6}{7^2}$ is equal to

A 7^8

B 7^3

C 7^{12}

D 7^4

Understand It with Pulse | Flag a mistake

3 When written as an entire radical, $3\sqrt{5}$ is equal to

- A $\sqrt{15}$
- B $\sqrt{75}$
- C $\sqrt{45}$
- D $\sqrt{30}$

Understand It with Pulse | Flag a mistake

4 When written as a single power, $(3^2)^4$ is equal to

- A 3^8
- B 3^6
- C 9^8
- D 3^{16}

Understand It with Pulse | Flag a mistake

5 When written in radical form, $x^{3/5}$ is equal to

A $\sqrt[5]{x^3}$

B $\sqrt[3]{x^5}$

C $\sqrt{x^3}$

D $x^{5/3}$

Understand It with Pulse | Flag a mistake

6 Which of the following numbers is irrational?

A $\sqrt{16}$

B 0.5

C $\frac{3}{4}$

D $\sqrt{7}$

Understand It with Pulse | Flag a mistake

7 **Which of the following numbers is rational?**

- **A** $\sqrt{11}$
- **B** π
- **C** $\sqrt{49}$
- **D** $\sqrt{2}$

Understand It with Pulse | Flag a mistake

8 **The value of $32^{3/5}$ is ____.**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 When written as a single power, $\frac{9^8}{9^3}$ is equal to

A 9^{11}

B 9^{24}

C 9^5

D 9^2

Understand It with Pulse | Flag a mistake

10 When written as an entire radical, $2\sqrt{7}$ is equal to

A $\sqrt{14}$

B $\sqrt{28}$

C $\sqrt{49}$

D $\sqrt{21}$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 3
2. D
3. C
4. A
5. A
6. D
7. C
8. 8
9. C
10. B

© 2026 Brett Robbins. All Rights Reserved.