

Brett Robbins Academic Consulting

Mathematics 10C Practice Test

Unit 2: Roots and Powers

5 Questions

Original practice questions written to the Alberta curriculum, in the style of past diploma examinations. Work through each question, then check your answers with the key at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, contact Brett for clarification.

Question 1

When written as a single power, $3^2 \cdot 3^5$ is equal to

- A) 3^{10}
B) 3^7
C) 9^7
D) 3^3

Question 2

The value of $(-2)^4$ is

- A) 16
B) -16
C) 8
D) -8

Question 3

When written as a single power, $\frac{7^9}{7^4}$ is equal to

- A) 7^{13}
B) 7^4
C) 7^{36}
D) 7^5

Question 4

The value of 12^0 is

- A) 0
B) 12
C) 1
D) 120

Question 5

When written as a mixed radical in simplest form, $\sqrt{50}$ is equal to

- A) $5\sqrt{2}$
B) $2\sqrt{5}$
C) $25\sqrt{2}$
D) $5\sqrt{10}$

Answer Key

- | | | |
|------|------|------|
| 1. B | 3. D | 5. A |
| 2. A | 4. C | |

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