YUKON PRE-CALCULUS 11 (MPREC11) · UNIT A · 10 QUESTIONS

Real Numbers, Powers and Radicals — 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 $125^{1/3}$ is**

- A 25
- B 15
- C 5
- D 125

Understand It with Pulse | Flag a mistake

2 **The value of $4^{3/2}$ is**

A 6

B 8

C 12

D 2

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3 **The value of $1000^{2/3}$ is**

A 100

B 10

C 1000

D 20

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4 The radical $\sqrt{98}$ written in simplest form is

- A $2\sqrt{7}$
- B $7\sqrt{2}$
- C $14\sqrt{7}$
- D $49\sqrt{2}$

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5 The radical $\sqrt{45}$ written in simplest form is

- A $5\sqrt{3}$
- B $3\sqrt{5}$
- C $9\sqrt{5}$
- D $15\sqrt{3}$

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6 The sum $2\sqrt{5} + 3\sqrt{5}$ in simplest form is

- A $6\sqrt{5}$
- B $5\sqrt{10}$
- C $5\sqrt{5}$
- D $\sqrt{25}$

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7 The product $\sqrt{3} \cdot \sqrt{27}$ in simplest form is

- A 3
- B 9
- C $\sqrt{30}$
- D 81

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8 The fraction $\frac{1}{\sqrt{5}}$ with a rational denominator is

- A $\frac{\sqrt{5}}{5}$
- B $\sqrt{5}$
- C $\frac{5}{\sqrt{5}}$
- D $\frac{1}{5}$

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9 The fraction $\frac{10}{\sqrt{5}}$ with a rational denominator is

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

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10 **For $y = (1/2)^x$, the value of y when x = 2 is**

- A 0.5
- B 0.25
- C 2
- D 4

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ANSWER KEY

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

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