NEWFOUNDLAND AND LABRADOR MATHEMATICS 2201 · UNIT B · 25 QUESTIONS

Radicals and Radical Equations — 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 square root of 36 is**

ANSWER _____

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2 **In simplest form, the square root of 20 is**



A $2\sqrt{6}$

B $2\sqrt{5}$

C $3\sqrt{5}$

D 20

Understand It with Pulse | Flag a mistake

3 **The coefficient of $\sqrt{5}$ in $5\sqrt{5} + 2\sqrt{5}$ simplified is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Solve $\sqrt{x} = 9$ for x. The value of x is**

ANSWER _____

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5 **Solve $\sqrt{x + 1} = 4$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **The cube root of 27 is**

ANSWER _____

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7 **The value of $16^{1/4}$ is**

ANSWER

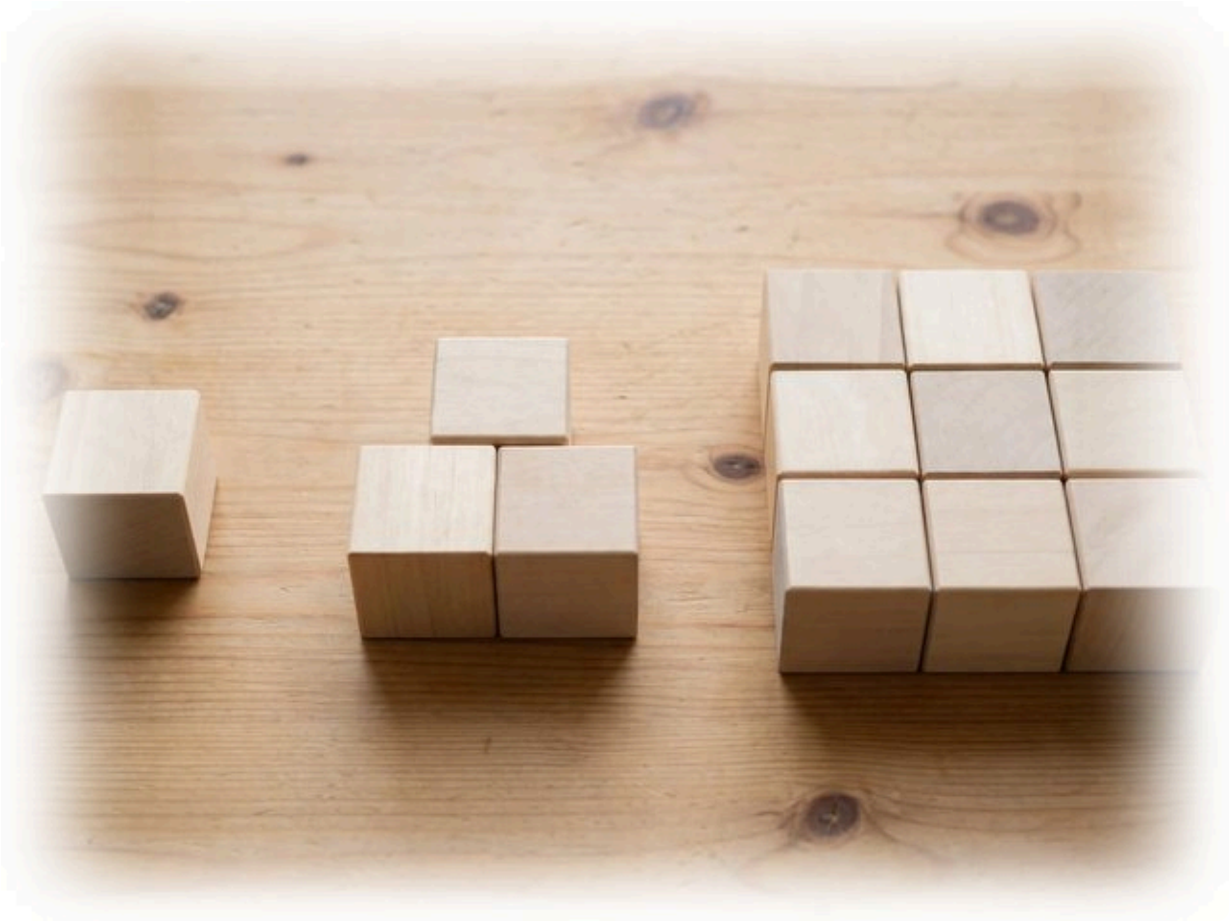
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8 **The value of $\sqrt{3} \times \sqrt{27}$ is**

ANSWER

Understand It with Pulse | Flag a mistake

9 **Remember how the term is defined. A radical is in simplest form when the radicand has no factor that is**



A a perfect square, other than 1

B a prime number

C an odd number

D a multiple of 10

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10 **Which is the largest?**



A $\sqrt{45}$

B $\sqrt{50}$

C $\sqrt{40}$

D $\sqrt{30}$

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11 The domain of $f(x) = \sqrt{x - 5}$ is

- **A** $x \leq 5$
- **B** $x > 5$
- **C** $x \geq 5$
- **D** $x \geq -5$

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12 **Recall the rule. The equation $\sqrt{x} = -3$ has**



A one solution, x equals 9

B one solution, x equals -9

C infinitely many solutions

D no real solution

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13 **The value of $\sqrt{2} \times \sqrt{2}$ is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Solve $2\sqrt{x} = 12$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **The square root of 100 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **In simplest form, the square root of 18 is**



A $3\sqrt{3}$

B $4\sqrt{2}$

C 18

D $3\sqrt{2}$

Understand It with Pulse | Flag a mistake

17 **The coefficient of $\sqrt{5}$ in $3\sqrt{5} + 4\sqrt{5}$ simplified is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **Solve $\sqrt{x} = 7$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **Solve $\sqrt{x + 7} = 3$ for x. The value of x is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **The cube root of 216 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **The value of $8^{1/3}$ is**

ANSWER

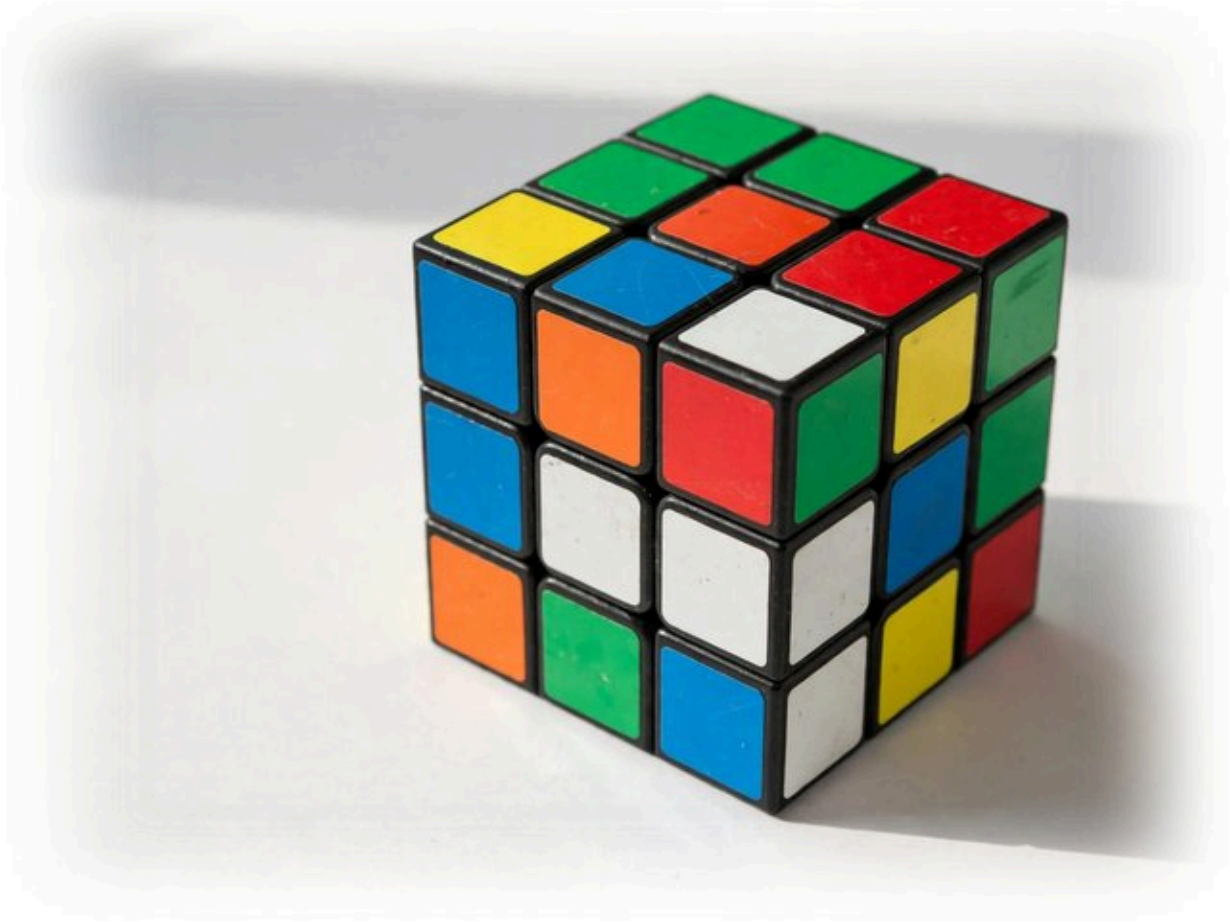
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22 **The value of $\sqrt{5} \times \sqrt{45}$ is**

ANSWER

Understand It with Pulse | Flag a mistake

23 **Apply the principle. A radical is in simplest form when the radicand has no factor that is**



A a prime number

B an odd number

C a perfect square, other than 1

D a multiple of 10

Understand It with Pulse | Flag a mistake

24 **Consider the principle in general. Which is the largest?**

- A $\sqrt{45}$
- B $\sqrt{40}$
- C $\sqrt{30}$
- D $\sqrt{50}$

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25 **The domain of $f(x) = \sqrt{x - 2}$ is**

- A $x \geq 2$
- B $x \leq 2$
- C $x > 2$
- D $x \geq -2$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 6
2. B
3. 7
4. 81
5. 15
6. 3
7. 2
8. 9
9. A
10. B
11. C
12. D
13. 2
14. 36
15. 10
16. D
17. 7
18. 49
19. 2
20. 6
21. 2
22. 15
23. C
24. D
25. A

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