ALBERTA MATH 20-2 · UNIT 5 · 10 QUESTIONS

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 simplified form of $\sqrt{27} - \sqrt{3}$ is**

- A $2\sqrt{3}$
- B $\sqrt{24}$
- C $3\sqrt{3}$
- D $4\sqrt{3}$

Understand It with Pulse | Flag a mistake

2 **When $\sqrt{180}$ is written in simplest form as $a\sqrt{b}$, the value of a is ____ Record your answer as a whole number.**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Written as an entire radical, $5\sqrt{2}$ is equal to**

- A $\sqrt{10}$
- B $\sqrt{50}$
- C $\sqrt{20}$
- D $\sqrt{100}$

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4 **The values $\sqrt{10}$, $2\sqrt{3}$, $\sqrt{19}$ and $\sqrt{21}$, written in order from smallest to largest, are**

- A $2\sqrt{3}, \sqrt{10}, \sqrt{21}, \sqrt{19}$
- B $\sqrt{10}, 2\sqrt{3}, \sqrt{19}, \sqrt{21}$
- C $\sqrt{10}, \sqrt{19}, 2\sqrt{3}, \sqrt{21}$
- D $\sqrt{19}, \sqrt{21}, 2\sqrt{3}, \sqrt{10}$

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5 **Triangle ABC is shown. AB = 5 cm, AC = 5 cm. The length of BC, to the nearest tenth of a centimetre, is _____ cm**

ANSWER _____

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6 **Triangle ABC is shown. It is formed by the diagonal of a square window. AB = 4 cm, AC = 4 cm. The length of the diagonal, to the nearest tenth of a centimetre, is _____ cm**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **When $\sqrt{98} + \sqrt{50}$ is simplified, the result is written as $a\sqrt{2}$. The value of a is ____ Record your answer as a whole number.**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 The simplified form of $2\sqrt{45} - \sqrt{20}$ is

A $8\sqrt{5}$

B $2\sqrt{5}$

C $6\sqrt{5}$

D $4\sqrt{5}$

Understand It with Pulse | Flag a mistake

9 When $\sqrt{125}$ is written in simplest form as $a\sqrt{b}$, the value of a is ____ Record your answer as a whole number.

ANSWER _____

Understand It with Pulse | Flag a mistake

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

A $\sqrt{28}$

B $\sqrt{14}$

C $\sqrt{40}$

D $\sqrt{11}$

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	7.1	**9.**	5
2.	6	**6.**	5.7	**10.**	A
3.	B	**7.**	12		
4.	B	**8.**	D		

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