Test (CS): Radical Expressions
Question 1 of 25 (91869)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
3
Question:
Which choice is equivalent to the product below?
$\sqrt{45} \cdot \sqrt{10}$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\sqrt{55}$ |  |
| *B. | $15 \sqrt{2}$ | Correct! |
| C. | $8 \sqrt{2}$ |  |
| D. | $5 \sqrt{5}$ |  |

Global Incorrect Feedback
The correct answer is: $15 \sqrt{2}$.

Question 2 of 25 (295987)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

1
Multiple Choice

Which choice is equivalent to the product below?
$\sqrt{5} \cdot \bar{F}$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $=\sqrt{2}$ |  |
| B. |  |  |
| *C. | $\equiv \sqrt{2}$ | Correct! |
| D. |  |  |

Global Incorrect Feedback
The correct answer is:

Question 3 of 25 (91870)
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
3
Correct Answer:
19
Question:
Evaluate the expression below.

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |

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|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 19. |

## Question 4 of 25 (295989)

Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score: 3

Correct Answer:
31
Question:
Evaluate the expression below.


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 31. |

Question 5 of 25 (91871)
Maximum Attempts: 1
Question Type:
Numeric Fill In Blank
Maximum Score:
3
Correct Answer:
10
Question:
Evaluate the expression below.
$(4-\sqrt{6})(\sqrt{6}+4)$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 10. |

## Question 6 of 25 (295991)

Maximum Attempts: 1
Question Type: Numeric Fill In Blank
Maximum Score: 3
Correct Answer: 8
Question: Evaluate the expression below.

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| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 8. |

## Question 7 of 25 (138555)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which choice is equivalent to the product below?

$$
\sqrt{\frac{3}{14}} \cdot \sqrt{\frac{7}{8}}
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\sqrt{\frac{11}{21}}$ |  |
| *B. | $\frac{\sqrt{3}}{4}$ | Correct! |
| C. | $\frac{2 \sqrt{3}}{7}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\frac{\sqrt{3}}{4}$. |

## Question 8 of 25 (138557)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3

Question:
Which inequality represents all values of $x$ for which the product below is defined?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x<0$ |  |
| B. | $x$ | 0 |
|  |  |  |
| *C. | $x$ | 2 |
| Correct! |  |  |
| D. | $x>2$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $x \quad 2$. |

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Question 9 of 25 (295997)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question:

3
Which inequality represents all values of $x$ for which the product below is defined?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x>3$ |  |
| *B. | $x \geq 3$ | Correct! |
| C. | $x \geq 0$ |  |
| D. | $x<0$ |  |

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $2 x$ |  |
| B. | $\frac{3}{\sqrt{x^{3}}}$ |  |
| *C. | $2 \sqrt{x}$ | Correct! |
| D. | $4 \sqrt{x}$ |  |

1
Multiple Choice
3
Which choice is equivalent to the product below when $x>0$ ?
$\sqrt{2} \cdot \sqrt{2 x}$

Global Incorrect Feedback
The correct answer is: $2 \sqrt{x}$.

## Question 11 of 25 (91875)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
1

3

Multiple Choice

Which choice is equivalent to the product below when $x>0$ ?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\frac{x}{9}$ |  |
| *B. | $\frac{x}{3}$ | Correct! |
| C. | $\frac{\sqrt{x}}{3}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\frac{\chi}{3}$. |

Question 12 of 25 (296001)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question:
Which choice is equivalent to the product below when $x>0$ ?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | $\frac{\square}{3}$ | Correct! |
| B. | $\frac{\pi}{\vdots}$ |  |
| C. | $\frac{\vdots}{?}$ |  |

Global Incorrect Feedback
The correct answer is: $\stackrel{\ddot{x}}{\underset{2}{-} \text {. }}$.

Question 13 of 25 (91876)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

Multiple Choice

Which choice is equivalent to the expression below?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. |  | Correct! |
| B. |  |  |
| C. |  |  |
| D. |  |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is:. |

Question 14 of 25 (296004)
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which choice is equivalent to the expression below?

|  | Choice | Feedback |
| :---: | :---: | :---: |
| A. | $\sqrt{1 \%}+4 \cdot \sqrt{x}$ |  |
| *B. | $5 \sqrt{x}$ | Correct! |
| C. | $=\sqrt{1 / x}+\cdots \overline{4}$ |  |
| D. | 17\% ${ }^{-}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $5 \sqrt{x}$. |

## Question 15 of 25 (91877)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which choice is equivalent to the expression below?

$$
\sqrt{6}+2 \sqrt{3}+\sqrt{27}-\sqrt{12}
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $5 \sqrt{3}$ |  |
| B. | $5 \sqrt{3}-6$ |  |
| C. | $2 \sqrt{3}-\sqrt{21}$ |  |
| *D. | $3 \sqrt{3}+\sqrt{6}$ | Correct! |

## Question 16 of 25 (91878)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
3
Which inequality represents all values of $x$ for which the quotient below is defined?

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|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x \geq-1$ |  |
| B. | $-1 \leq x \leq$ <br> 3 |  |
| C. | $x \leq 3$ |  |
| *D. | $-1 \leq x<$ <br> 3 | Correct! |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $-1 \leq x<3$. |

Question 17 of 25 (296008)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

Multiple Choice

Which inequality represents all values of $x$ for which the quotient below is defined?

```
5+1}\div\sqrt{4}{4
```

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $x \geq-1$ |  |
| B. | $-1 \leq x \leq$ <br> 4 |  |
| C. | $x \leq 4$ |  |
| *D. | $-1 \leq x<$ <br> 4 | Correct! |

## Question 18 of 25 (91879)

| Maximum Attempts: | 1 |
| :--- | :--- | :--- |
| Question Type: | Multiple Choice |
| Maximum Score: | 3 |
| Question: | Which choice is equivalent to the quotient below when $-3 \quad x<3$ ? |


|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. |  | Correct! |
| B. |  |  |
| C. |  |  |
| D. | 1 |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\quad$. |

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Question 19 of 25 ( 91880 )

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

Multiple Choice

Which choice is equivalent to the quotient below when $x>0$ ?

$$
\sqrt{6 x+27 x^{3}} \div \sqrt{3 x}
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\sqrt{2}+3 x$ |  |
| *B. | $\sqrt{2+9 x^{2}}$ | Correct! |
| C. | $\sqrt{2+27 x^{3}}$ |  |
| D. | $\sqrt{3 x+27 x^{3}}$ |  |

The correct answer is: $\sqrt{2+9 x^{2}}$.

## Question 20 of 25 (296013)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question:
3

Which choice is equivalent to the quotient below when $x>0$ ?

$$
\sqrt{6 x+27 x^{3}} \div \sqrt{3 x}
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\sqrt{2}+3 x$ |  |
| B. | $\sqrt{2}+16$ |  |
| *C. | $\sqrt{2+9 x^{2}}$ | Correct! |
| D. | $\sqrt{2 x+1 E x^{2}}$ |  |

The correct answer is:

## Question 21 of 25 (91881)

Maximum Attempts: 1
Question Type:
Maximum Score:
Numeric Fill In Blank

Correct Answer:
Question:
Rationalize the denominator of the fraction and enter the new denominator below.

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |

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|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 3. |

Question 22 of 25 (296015)

Maximum Attempts: 1
Question Type:
Maximum Score: Numeric Fill In Blank

Correct Answer: Question:

3
2

Rationalize the denominator of the fraction and enter the new denominator below.


| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 2. |

Question 23 of 25 (91882)

Maximum Attempts: 1
Question Type:
Maximum Score:
Question:
3

Multiple Choice

Which choice is equivalent to the fraction below? (Hint: Rationalize the denominator and simplify.)
$\frac{2-\sqrt{2}}{2+\sqrt{2}}$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. |  | Correct! |
| B. |  |  |
| C. |  |  |
| D. | 2 |  |


| Global Incorrect Feedback |
| :--- | :--- |
| The correct answer is: $\quad$. |

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## Question 24 of 25 (91883)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which choice is equivalent to the fraction below? (Hint: Rationalize the denominator and simplify.)

$$
\frac{2}{\sqrt{x}+\sqrt{x+2}}
$$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\sqrt{x}+\sqrt{x+2}$ |  |
| B. | $\sqrt{x}-\sqrt{x+2}$ |  |
| *C. | $\sqrt{x+2}-\sqrt{x}$ | Correct! |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\sqrt{x+2}-\sqrt{x}$. |

## Question 25 of 25 ( 296019 )

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question: Which choice is equivalent to the fraction below? (Hint: Rationalize the denominator and simplify.)


|  | Choice | Feedback |
| :--- | :---: | :--- |
| *A. | ${ }^{2}$ | 2 |
| B. | $\sqrt{x}-\sqrt{x+2}$ |  |
| C. | $\sqrt{x+2}-\sqrt{x}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: |

