PREVIEW CLOSE

**Test (CS): Rational Expressions**

## Question 1 of 25 ( 91654 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 20
**Question:** Solve the proportion below.

$$\frac{x}{24} = \frac{\square}{\square}$$

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 20. |

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## Question 2 of 25 ( 290283 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 15
**Question:** Solve the proportion below.

$$\frac{x}{25} = \frac{\square}{\square}$$

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 15. |

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## Question 3 of 25 ( 290284 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 21
**Question:** Solve the proportion below.

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 21. |

## Question 4 of 25 ( 91655 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 18
**Question:** Solve the proportion below.

$$\frac{9}{x} = \frac{\cdot}{\cdot}$$

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 18. |

## Question 5 of 25 ( 290285 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 20
**Question:** Solve the proportion below.

$$\frac{5}{\cdot} = \frac{1}{\cdot}$$

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 20. |

## Question 6 of 25 ( 290286 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 12
**Question:** Solve the proportion below.

$x$ = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 12. |

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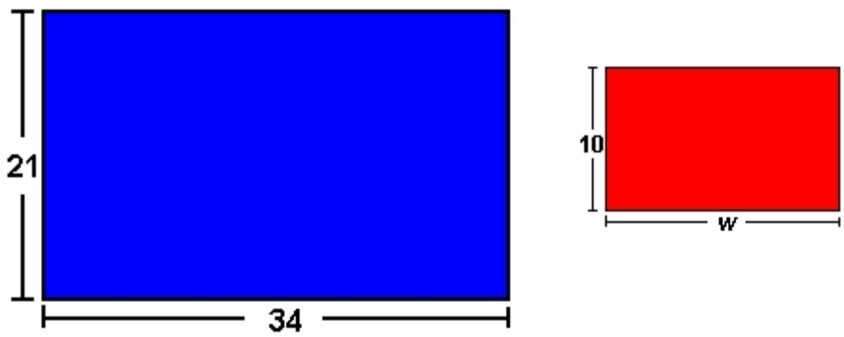
## Question 7 of 25 ( 91656 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 16.19
**Question:** Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.




*w* = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 16.19. |

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## Question 8 of 25 ( 290287 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 11.33
**Question:** Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.

*w* = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 11.33. |

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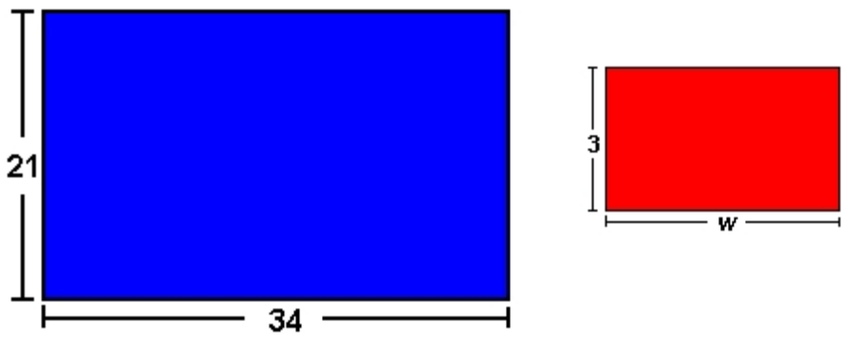
## Question 9 of 25 ( 290289 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 4.86
**Question:** Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.




*w* = _____.

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 4.86. |

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## Question 10 of 25 ( 91657 )

**Maximum Attempts:** 1
**Question Type:** Multiple Response
**Maximum Score:** 3
**Question:** For which value(s) of *x* will the rational expression below equal zero? *Check all that apply.*

**Correct Answers:**

| | Choice |
|---|---|
| **A.** | -1 |
| **B.** | 1 |
| ***C.** | -2 |
| **D.** | 2 |
| **E.** | -5 |
| ***F.** | 5 |

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answers are: -2 and 5. |

---

## Question 11 of 25 ( 290290 )

**Maximum Attempts:** 1

**Question Type:** Multiple Response

**Maximum Score:** 3

**Question:** For which value(s) of *x* will the rational expression below equal zero? *Check all that apply.*

$$\frac{(x-1)(x-5)}{x-5}$$

**Correct Answers:**

| | Choice |
|---|---|
| **A.** | 5 |
| ***B.** | -5 |
| **C.** | -1 |
| ***D.** | 1 |
| **E.** | 6 |
| **F.** | 0 |

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answers are: -5 and 1. |

---

## Question 12 of 25 ( 290291 )

**Maximum Attempts:** 1

**Question Type:** Multiple Response

**Maximum Score:** 3

**Question:** For which value(s) of *x* will the rational expression below equal zero? *Check all that apply.*

**Correct Answers:**

| | Choice |
|---|---|
| ***A.** | 3 |
| **B.** | -3 |
| ***C.** | -6 |
| **D.** | 6 |
| **E.** | -7 |
| **F.** | 7 |

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answers are: 3 and -6. |

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## Question 13 of 25 ( 91658 )

**Maximum Attempts:** 1

**Question Type:** Multiple Response

**Maximum Score:** 3

**Question:** For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*

$$\frac{(x-5)(x+2)}{x+1}$$

**Correct Answers:**

| | Choice |
|---|---|
| ***A.** | -1 |
| **B.** | 1 |
| **C.** | -2 |
| **D.** | 2 |
| **E.** | -5 |
| **F.** | 5 |

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: -1. |

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## Question 14 of 25 ( 290292 )

**Maximum Attempts:** 1

**Question Type:** Multiple Response

**Maximum Score:** 3

**Question:** For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*

**Correct Answers:**

| | Choice |
|---|---|
| **A.** | -6 |
| **B.** | 6 |
| **C.** | -3 |
| **D.** | 3 |
| ***E.** | -7 |
| **F.** | 7 |

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

| | Correct Feedback |
|---|---|
| | |

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: -7. |

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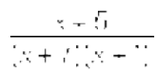
## Question 15 of 25 ( 290293 )

**Maximum Attempts:** 1
**Question Type:** Multiple Response
**Maximum Score:** 3
**Question:** For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*



**Correct Answers:**

| | Choice |
|---|---|
| **A.** | -5 |
| **B.** | 5 |
| ***C.** | -7 |
| **D.** | 7 |
| ***E.** | -1 |
| **F.** | 1 |

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

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

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: -7 and -1. |

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## Question 16 of 25 ( 91659 )

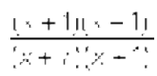
**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when *x* 2 or -3?

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

| Global Incorrect Feedback |
|---|
| The correct answer is: $\frac{x+1}{x+3}$. |

## Question 17 of 25 ( 290294 )

**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when $x \neq -1$ or $-7$?

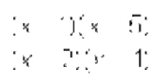


| | Choice | Feedback |
|---|---|---|
| **A.** |  | |
| ***B.** |  | Correct! |
| **C.** |  | |

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

## Question 18 of 25 ( 290295 )

**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when $x \neq 2$ or $1$?



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

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

## Question 19 of 25 ( 91660 )

**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when $x$ -2 or -1?

| | Choice | Feedback |
|---|---|---|
| **A.** | $\frac{x+2}{x+1}$ | |
| **B.** | $\frac{x^2-4}{x+1}$ | |
| ***C.** | $\frac{x-2}{x+1}$ | Correct! |

| **Global Incorrect Feedback** |
|---|
| The correct answer is: $\frac{x-2}{x+1}$. |

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## Question 20 of 25 ( 290296 )

**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when $x \neq 1$ or 3?

$$\frac{\quad 9}{)(\ \ 3)}$$

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

| **Global Incorrect Feedback** |
|---|
| The correct answer is: $\frac{\ +3}{\ -1}$. |

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## Question 21 of 25 ( 290297 )

**Maximum Attempts:** 1
**Question Type:** Multiple Choice
**Maximum Score:** 3
**Question:** Which of the following is equal to the rational expression when $x$ -4 or 16?

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

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

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## Question 22 of 25 ( 485903 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 0
**Question:** Solve the equation for *x*.

$$\frac{3x+2}{4} = \frac{5x+1}{2}$$

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

| | Correct Feedback |
|---|---|
| | |

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 0. |

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## Question 23 of 25 ( 485904 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 4
**Question:** Solve the equation for *x*.

$$\frac{3x+2}{2} = \frac{5x+1}{3}$$

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

| | Correct Feedback |
|---|---|
| | |

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 4. |

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## Question 24 of 25 ( 485905 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 17
**Question:** Solve the equation for *x*.

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

| | Correct Feedback |
|---|---|
| | |

| | Global Incorrect Feedback |
|---|---|
| | The correct answer is: 17. |

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## Question 25 of 25 ( 485906 )

**Maximum Attempts:** 1
**Question Type:** Numeric Fill In Blank
**Maximum Score:** 3
**Correct Answer:** 19
**Question:** Solve the equation for *x*.

$$\frac{x+2}{3} = \frac{4x+1}{11}$$

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

| | Correct Feedback |
|---|---|
| | |

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