

Item	Claim	Domain	Target	DOK	CCSS-MC	CCSS-MP
#5	1	A-REI	H	2	A-REI.A.2	N/A

A student solved $\frac{3}{x-4} = \frac{x}{7}$ in six steps, as shown.

Step 1: $3 = \frac{x(x-4)}{7}$

Step 2: $21 = x(x-4)$

Step 3: $21 = x^2 - 4x$

Step 4: $0 = x^2 - 4x - 21$

Step 5: $0 = (x-7)(x+3)$

Step 6: $x = -3, x = 7$

Which statement is an accurate interpretation of the student's work?

- Ⓐ The student solved the equation correctly.
- Ⓑ The student made an error in step 2.
- Ⓒ The student made an error in step 5.
- Ⓓ Only $x = 7$ is a solution to the original equation.

Key: A

Rubric: (1 point) The student selects the correct interpretation.