RATIONALS – 1. Simplifying

Name:

Date:

Please remember to show/communicate all your work. You DO NOT need to answer every question, two correct answers at any level will demonstrate a student's level of attainment.

LEGEND						
✓	**M**	✘	**S**	**N**	**G**	**H**
correct	mostly correct	incorrect	silly mistake	did not know how to start or skipped	with group	got help

	Mild (🌶🌶)		Medium (🌶🌶🌶)		Spicey (🌶🌶🌶🌶)
Questions	#1	#2	#3	#4	#5
Results					

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1. State the non-permissible values:

a) $\frac{4x^2-16x-12}{x^2-9}$

b) $\frac{x^2-3x-10}{x^2+x-2} \div \frac{x^2-10x+25}{x^2-1}$

2. Simplify and state the non-permissible values:

$$\frac{3c}{c^2-25} \times \frac{c-5}{6c^2-3c} \div \frac{2}{c+5}$$

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3. Simplify and state the non-permissible values:

$$\frac{5-2x}{x+2}+\frac{x^2}{x^2-4}-5$$

4. Without duplicating values, use the digits 0 to 9 to create a true statement. State the non-permissible values. Explain some of the steps you took to solving, your initial thoughts/attempts, and include any rough work to help show your thinking.

$$\frac{\square(x+\square)(x-\square)}{\square(x^2+\square x-\square\square)}=\square$$

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5. The average of three positive numbers can be represented using the expression $\frac{43x+92}{(60x)(x+4)}$. If two of the numbers are $\frac{1}{x+4}$ & $\frac{2}{5x}$ determine the third value 'n'