

Achievement Check Rubric

Category	Level 1	Level 2	Level 3	Level 4
Knowledge/ Understanding	<ul style="list-style-type: none"> demonstrates limited knowledge of how to apply exponent rules for multiplying and dividing monomials demonstrates limited understanding of exponent rules for multiplying and dividing monomials 	<ul style="list-style-type: none"> demonstrates some knowledge of how to apply exponent rules for multiplying and dividing monomials demonstrates some understanding of exponent rules for multiplying and dividing monomials 	<ul style="list-style-type: none"> demonstrates considerable knowledge of how to apply exponent rules for multiplying and dividing monomials demonstrates considerable understanding of exponent rules for multiplying and dividing monomials 	<ul style="list-style-type: none"> demonstrates thorough knowledge of how to apply exponent rules for multiplying and dividing monomials demonstrates a high degree of understanding of exponent rules for multiplying and dividing monomials
Thinking	<ul style="list-style-type: none"> uses limited planning skills (e.g., guesses at the solution) uses processing skills with limited effectiveness (e.g., makes incorrect steps without justification) uses critical/creative thinking processes with limited effectiveness (e.g., requires significant direction and assistance to begin simplifying or substituting in the expression) 	<ul style="list-style-type: none"> uses some planning skills (e.g., provides some evidence of a plan) uses processing skills with some effectiveness (e.g., provides some evidence of reasoning or justification) uses critical/creative thinking processes with some effectiveness (e.g., requires some direction and assistance to begin simplifying or substituting in the expression) 	<ul style="list-style-type: none"> uses considerable planning skills (e.g., provides considerable evidence of a plan) uses processing skills with considerable effectiveness (e.g., provides considerable evidence of reasoning or justification) uses critical/creative thinking processes with considerable effectiveness (e.g., simplifies and substitutes into the expression with little assistance) 	<ul style="list-style-type: none"> uses planning skills with a high degree of effectiveness (e.g., provides detailed evidence of plans) uses processing skills effectively (e.g., provides detailed evidence of reasoning or justification) uses critical/creative thinking processes with a high degree of effectiveness (e.g., simplifies and substitutes values into the expression(s) quickly and accurately without assistance)
Communication	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with limited effectiveness (e.g., in random steps without logical flow) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with some effectiveness (e.g., written steps have some cohesion, clarity and organization) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with considerable effectiveness (e.g., written steps have considerable cohesion, clarity and organization) 	<ul style="list-style-type: none"> expresses and organizes mathematical thinking with a high degree of effectiveness (e.g., solutions are very clear, concise and well organized)
Application	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts with limited effectiveness (e.g., has great difficulty applying exponent rules with numbers) transfers knowledge of skills to new context with limited effectiveness (e.g., has great difficulty applying exponent rules with monomials) makes connections within and between various contexts with limited effectiveness (e.g., needs significant direction in trying to simplify the expression) 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts with some effectiveness (e.g., has some difficulty applying exponent rules with numbers) transfers knowledge of skills to new context with some effectiveness (e.g., has some difficulty applying exponent rules with monomials) makes connections within and between various contexts with some effectiveness (e.g., needs some direction in trying to simplify the expression) 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts with considerable effectiveness (e.g., applies exponent rules with numbers) transfers knowledge of skills to new context with considerable effectiveness (e.g., applies exponent rules with monomials) makes connections within and between various contexts with considerable effectiveness (e.g., simplifies the expression with little direction) 	<ul style="list-style-type: none"> applies knowledge and skills in familiar contexts with a high degree of effectiveness transfers knowledge of skills to new context with a high degree of effectiveness makes connections within and between various contexts with a high degree of effectiveness (e.g., simplifies the expression and shows that Josie's incorrect expression reduces to the simplified value)