Name: _____ Score:

# Quotient Rule

Pre-algebra: M

Use quotient rule and rewrite each expression as single exponent.

1) $17^{-18} \div 17^{7}$

2) $(-8)^{12} \div (-8)^{9}$

3) $11^{-6} \div 11^{-7}$

4) $(-10)^{-5} \div (-10)^{-12}$

5) $13^{11} \div 13^{-8}$

6) $3^{17} \div 3^{9}$

7) $15^{9} \div 15^{8}$

$4)^{13} \div (-14)^{-9}$

10) $12^{-6} \div 12^{-5}$

$\div 9^{11}$

13) $(-20)^{-10} \div (-2$

$\div 2^{-4}$

16) $7^{12} \div 7^{9}$

$^{5} \div 18^{-16}$

19) $19^{-6} \div 19^{-3}$

20) $5^{-19} \div 5^{8}$

21) $(-11)^{-11} \div (-11)^{-5}$

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Name: _____ Answer key Score:

# Quotient Rule

Pre-algebra: M

1) $17^{-18} \div 17^{7}$

$= 17^{-25}$

2) $(-8)^{12} \div (-8)^{9}$

$= (-8)^{3}$

3) $11^{-6} \div 11^{-7}$

$= 11^{1}$

4) $(-10)^{-5} \div (-10)^{-12}$

$= (-10)^{7}$

5) $13^{11} \div 13^{-8}$

$= 13^{19}$

6) $3^{17} \div 3^{9}$

$= 3^{8}$

7) $15^{9} \div 15^{8}$

$= 15^{1}$

$4)^{13} \div (-14)^{-9}$

$-14)^{22}$

10) $12^{-6} \div 12^{-5}$

$= 12^{-1}$

$\div 9^{11}$

13) $(-20)^{-10} \div (-2$

$= (-20)^{-12}$

$\div 2^{-4}$

$4$

16) $7^{12} \div 7^{9}$

$= 7^{3}$

$^{5} \div 18^{-16}$

$3^{1}$

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19) $19^{-6} \div 19^{-3}$

$= 19^{-3}$

20) $5^{-19} \div 5^{8}$

$= 5^{-27}$

21) $(-11)^{-11} \div (-11)^{-5}$

$= (-11)^{-6}$