

Name : _____

Standard Form & Exponential Form

A) Write the following numerals in expanded form and standard form.

S.No	Exponential Form	Expanded Form	Standard Form
1)	$\left(\frac{1}{4}\right)^5$		
2)	$\left(-\frac{5}{2}\right)^4$		
3)	$\left(\frac{1}{3}\right)^7$		
4)	$\left(-\frac{2}{7}\right)^3$		

B) Write the following numerals in exponential form.

S.No	Standard Form	Exponential Form
1)	$-\frac{1}{51}$	
2)	$\frac{64}{27}$	
3)	$\frac{1}{625}$	
4)	$\frac{49}{36}$	

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C) Write the following numerals in exponential form using prime factorization.

1) $\frac{1}{121} =$ _____

2) $\frac{2,187}{128} =$ _____

3) $-\frac{6,859}{125} =$ _____

4) $-\frac{32}{243} =$ _____

Name : _____

Standard Form & Exponential Form

A) Write the following numerals in expanded form and standard form.

S.No	Exponential Form	Expanded Form	Standard Form
1)	$\left(\frac{1}{4}\right)^5$	$\frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4} \cdot \frac{1}{4}$	$\frac{1}{1,024}$
2)	$\left(-\frac{5}{2}\right)^4$	$\left(-\frac{5}{2}\right) \cdot \left(-\frac{5}{2}\right) \cdot \left(-\frac{5}{2}\right) \cdot \left(-\frac{5}{2}\right)$	$\frac{625}{16}$
3)	$\left(\frac{1}{3}\right)^7$	$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$	$\frac{1}{2,187}$
4)	$\left(-\frac{2}{7}\right)^3$		$-\frac{8}{343}$

B) Write the following numerals in exponential form.

S.No	Standard Form	Exponential Form
1)	$-\frac{1}{512}$	$\left(-\frac{1}{2}\right)^9$
2)	$\frac{64}{27}$	$\left(\frac{4}{3}\right)^3$
3)	$\frac{1}{625}$	$\left(-\frac{1}{5}\right)^4$
4)	$\frac{49}{36}$	$\left(\frac{7}{6}\right)^2$

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C) Write the following numerals in exponential form using prime factorization.

1) $\frac{1}{121} = \left(\frac{1}{11}\right)^2$ or 11^{-2} 2) $\frac{2,187}{128} = \left(\frac{3}{2}\right)^7$

3) $-\frac{6,859}{125} = \left(-\frac{19}{5}\right)^3$ 4) $-\frac{32}{243} = \left(-\frac{2}{3}\right)^5$