

Name : _____

T1S1

Base and Exponent

A) Identify the base and exponent in each of the following.

1) $\left(-\frac{9}{5}\right)^{-5}$

Base = _____

Exponent = _____

2) $\left(-\frac{1}{2}\right)^4$

Base = _____

Exponent = _____

3) 15^{-2}

Base = _____

Exponent = _____

4) $(-8.3)^7$

Base = _____

Exponent = _____

5) $\left(\frac{4}{7}\right)^3$

Base = _____

Exponent = _____

6) $\left(-\frac{5}{3}\right)^{-1}$

Base = _____

Exponent = _____

B) Write the numerals in exponential form with the given base and exponent.

S.No	Base	Exponent	Exponential Form
1)	$-\frac{7}{4}$	6	
2)	14	-8	
3)	-6.1	0	
4)	$\frac{3}{8}$	2	

C) 1) Which of the following has 5 as the exponent?

i) $\left(\frac{2}{9}\right)^5$

ii) 5^{-10}

iii) $\left(\frac{3}{7}\right)^{-9}$

iv) $(-11)^{-7}$

2) Which of the following has $\frac{4}{5}$ as the base?

i) 12^2

ii) $\left(\frac{4}{5}\right)^3$

iii) $(0.1)^{-4}$

iv) $\left(\frac{4}{9}\right)^7$

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Exponent = -5

2) $\left(-\frac{1}{2}\right)^4$

Base = $-\frac{1}{2}$

Exponent = 4

3) 15^{-2}

Base = 15

Exponent = -2

4) $(-8.3)^7$

Base = -8.3

Exponent = 7

5) $\left(\frac{4}{7}\right)^3$

Base = $\frac{4}{7}$

Exponent = 3

6) $\left(-\frac{5}{3}\right)^{-1}$

Base = $-\frac{5}{3}$

Exponent = -1

B) Write the numerals in exponential form with the given base and exponent.

S.No	Base	Exponent	Exponential Form
1)	$-\frac{7}{4}$	6	$\left(-\frac{7}{4}\right)^6$
2)	14	-8	14^{-8}
3)	-6.1	0	$(-6.1)^0$
4)	$\frac{3}{8}$	2	$\left(\frac{3}{8}\right)^2$

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