

Name : _____

Base and Exponent

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

1) $\left(-\frac{2}{7}\right)^8$

Base = _____

Exponent = _____

2) 17^{-6}

Base = _____

Exponent = _____

3) $(-4)^2$

Base = _____

Exponent = _____

4) $(-19.3)^{-4}$

Base = _____

Exponent = _____

5) $\left(\frac{9}{8}\right)^0$

Base = _____

Exponent = _____

6) $\left(-\frac{7}{6}\right)^5$

Base = _____

Exponent = _____

B) Write the numerals in exponential form.

S.No	Base	Exponential Form
1)	$-\frac{4}{3}$	
2)	$\frac{1}{2}$	
3)	16	
4)	3	

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C) 1) Which of the following has 3 as the exponent?

i) $\left(\frac{8}{3}\right)^{-8}$

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

iii) $(3.2)^{-6}$

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

2) Which of the following has 10 as the base?

i) 10^{-1}

ii) $\left(\frac{1}{4}\right)^7$

iii) $(-2)^0$

iv) $\left(\frac{5}{7}\right)^{-9}$

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Base and Exponent

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

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Base = $-\frac{2}{7}$

Exponent = 8

2) 17^{-6}

Base = 17

Exponent = -6

3) $(-4)^2$

Base = -4

Exponent = 2

4) $(-19.3)^{-4}$

Base = -19.3

Exponent = -4

5) $\left(\frac{9}{8}\right)^5$

Base = $\frac{9}{8}$

Exponent = 5

6) $\left(-\frac{7}{6}\right)^5$

Base = $-\frac{7}{6}$

Exponent = 5

B) Write the numerals in exponential form.

S.No	Base	Exponential Form
1)	$-\frac{4}{3}$	$\left(-\frac{4}{3}\right)^{-5}$
2)	$\frac{1}{2}$	$\left(\frac{1}{2}\right)^9$
3)	16.8	$(16.8)^4$
4)	3	3^{-2}

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