

# Base and Exponent

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

1)  $(9.2)^{-4}$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

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

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

3)  $(2m - 7)^4$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

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

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

5)  $v^5$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

6)  $\left(\frac{r}{4}\right)^{-3}$

Base = \_\_\_\_\_

Exponent = \_\_\_\_\_

B) Write the numerals in exponential form.

S.No	Base	Exponential Form
1)	$-\frac{5}{3}$	
2)	$-\frac{4}{2}$	
3)	2	
4)	12	

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C) 1) Which of the following has  $\frac{c}{2}$  as the base?

i)  $\left(\frac{c}{2}\right)^{-6}$

ii)  $\left(\frac{c}{7}\right)^8$

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

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

2) Which of the following has -9 as the exponent?

i)  $(-9.1)^3$

ii)  $7^9$

iii)  $\left(\frac{3}{8}\right)^{-9}$

iv)  $\left(-\frac{1}{9}\right)^2$

Name : \_\_\_\_\_

**Base and Exponent**

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

1)  $(9.2)^{-4}$

Base = 9.2

Exponent = -4

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

Base =  $-\frac{5}{9}$

Exponent = 2

3)  $(2m - 7)^4$

Base =  $2m - 7$

Exponent = 4

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

Base =  $-\frac{k}{4}$

Exponent = -1

5)  $v^5$

6)  $\left(\frac{r}{4}\right)^{-3}$

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

Exponent = -3

B) Write the numerals in

S.No	Base	Exponential Form
1)	$-\frac{5}{3}$	$\left(-\frac{5a}{3}\right)^{-2}$
2)	$-\frac{5}{2}$	$\left(-\frac{5}{2}\right)^4$
3)	2	$2^6$
4)	12	$(12p)^{-8}$

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