

Base and Exponent

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

- | | | |
|------------------|-------------------------------------|------------------------------------|
| 1) 1^2 | 2) $\left(-\frac{8}{3}\right)^{-7}$ | 3) $\left(\frac{3}{2}\right)^{-1}$ |
| Base = _____ | Base = _____ | Base = _____ |
| Exponent = _____ | Exponent = _____ | Exponent = _____ |

- | | | |
|----------------------------------|------------------|------------------|
| 4) $\left(-\frac{9}{4}\right)^9$ | 5) $(7.4)^3$ | 6) $(-18)^{-4}$ |
| Base = _____ | Base = _____ | Base = _____ |
| Exponent = _____ | Exponent = _____ | Exponent = _____ |

B) Write the numerals in

S.No	Base	Exponential Form
1)	4.9	
2)	$\frac{1}{9}$	
3)	$\frac{7}{6}$	
4)	$-\frac{1}{8}$	

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C) 1) Which of the following has -13 as the base?

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|----------|---------------|------------------|---------------|
| i) 5^8 | ii) $(1.3)^5$ | iii) $(-9)^{-2}$ | iv) $(-13)^0$ |
|----------|---------------|------------------|---------------|

2) Which of the following has 6 as the exponent?

- | | | | |
|----------------------------------|---------------|--------------------------------------|-------------------------------------|
| i) $\left(-\frac{4}{5}\right)^6$ | ii) 19^{-7} | iii) $\left(\frac{2}{5}\right)^{-6}$ | iv) $\left(\frac{8}{7}\right)^{-9}$ |
|----------------------------------|---------------|--------------------------------------|-------------------------------------|