

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

Score: \_\_\_\_\_

**Base and Exponent**

Identify the base and exponent.

1) $\left(\frac{2}{3}\right)^2$ Base = _____ Exponent = _____	2) $6^4$ Base = _____ Exponent = _____	3) $(-9)^3$ Base = _____ Exponent = _____
4) $\left(-\frac{5}{8}\right)^0$ Base = _____ Exponent = _____	5) $\left(\frac{8}{9}\right)^{-4}$ Base = _____ Exponent = _____	6) $\left(-\frac{1}{6}\right)^{-6}$ Base = _____ Exponent = _____
7) $5^7$ Base = _____ Exponent = _____	8) $\left(-\frac{3}{8}\right)^{-4}$ Base = _____ Exponent = _____	9) $\left(\frac{4}{7}\right)^3$ Base = _____ Exponent = _____
10) $\left(-\frac{7}{4}\right)^2$ Base = _____ Exponent = _____	11) $2^{-9}$ Base = _____ Exponent = _____	12) $\left(\frac{5}{4}\right)^6$ Base = _____ Exponent = _____
13) $\left(\frac{4}{5}\right)^{-7}$ Base = _____ Exponent = _____	14) $\left(\frac{1}{8}\right)^5$ Base = _____ Exponent = _____	15) $(-2)^{-7}$ Base = _____ Exponent = _____
16) $(-8)^{-3}$ Base = _____ Exponent = _____	17) $\left(\frac{6}{7}\right)^{-5}$ Base = _____ Exponent = _____	18) $(-3)^8$ Base = _____ Exponent = _____

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**Answers**

1) $\left(\frac{2}{3}\right)^2$ Base = $\frac{2}{3}$ Exponent = 2	2) $6^4$ Base = 6 Exponent = 4	3) $(-9)^3$ Base = -9 Exponent = 3
4) $\left(-\frac{5}{8}\right)^0$ Base = $-\frac{5}{8}$ Exponent = 0	5) $\left(\frac{8}{9}\right)^{-4}$ Base = $\frac{8}{9}$ Exponent = -4	6) $\left(-\frac{1}{6}\right)^{-6}$ Base = $-\frac{1}{6}$ Exponent = -6
7) $5^7$ Base = 5 Exponent = 7	8) $\left(-\frac{3}{8}\right)^{-4}$ Base = $-\frac{3}{8}$ Exponent = -4	9) $\left(\frac{4}{7}\right)^3$ Base = $\frac{4}{7}$ Exponent = 3
10) $\left(-\frac{7}{4}\right)^2$ Base = $-\frac{7}{4}$ Exponent = 2	11) $2^{-9}$ Base = 2 Exponent = -9	12) $\left(\frac{5}{4}\right)^6$ Base = $\frac{5}{4}$ Exponent = 6
13) $\left(\frac{4}{5}\right)^{-7}$ Base = $\frac{4}{5}$ Exponent = -7	14) $\left(\frac{1}{8}\right)^5$ Base = $\frac{1}{8}$ Exponent = 5	15) $(-2)^{-7}$ Base = -2 Exponent = -7
16) $(-8)^{-3}$ Base = -8 Exponent = -3	17) $\left(\frac{6}{7}\right)^{-5}$ Base = $\frac{6}{7}$ Exponent = -5	18) $(-3)^8$ Base = -3 Exponent = 8