**Name:** _____ **Score:**

## Base and Exponent

Algebra: M

Identify the base and exponent.

| | | |
|---|---|---|
| 1) $\left(\frac{a}{b}\right)^{8}$<br>$Base =$ _____<br>$Exponent =$ _____ | 2) $(x+y)^{\frac{1}{4}}$<br>$Base =$ _____<br>$Exponent =$ _____ | 3) $4^{z+3}$<br>$Base =$ _____<br>$Exponent =$ _____ |
| 4) $\left(\frac{2}{3}\right)^{a}$<br>$Base =$ _____<br>$Exponent =$ _____ | [illegible] | [illegible] |
| 7) $\left(\frac{m}{n}\right)^{\frac{2}{3}}$<br>$Base =$ _____<br>$Exponent =$ _____ | [illegible] | [illegible] |
| 10) $(a-2)^{4}$<br>$Base =$ _____<br>$Exponent =$ _____ | [illegible] | [illegible] |
| 13) $5^{m-2}$<br>$Base =$ _____<br>$Exponent =$ _____ | [illegible] | [illegible] |
| 16) $(m+5n)^{-q}$<br>$Base =$ _____<br>$Exponent =$ _____ | 17) $(1+2p)^{\frac{-a}{b}}$<br>$Base =$ _____<br>$Exponent =$ _____ | 18) $\left(\frac{7}{9}\right)^{-5}$<br>$Base =$ _____<br>$Exponent =$ _____ |

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Name: _____ Score:

Answer key

## Base and Exponent

Algebra: M

| | | |
|---|---|---|
| 1) $\left(\frac{a}{b}\right)^{8}$<br>$Base = \frac{a}{b}$<br>$Exponent = 8$ | 2) $(x+y)^{\frac{1}{4}}$<br>$Base = x+y$<br>$Exponent = \frac{1}{4}$ | 3) $4^{z+3}$<br>$Base = 4$<br>$Exponent = z+3$ |
| 4) $\left(\frac{2}{3}\right)^{a}$<br>$Base = \frac{2}{3}$<br>$Exponent = a$ | 5) $(2p+q)^{\frac{1}{3}}$ | 6) $5^{\frac{a}{b}}$<br>$5$<br>$nt = \frac{a}{b}$ |
| 7) $\left(\frac{m}{n}\right)^{\frac{2}{3}}$<br>$Base = \frac{m}{n}$<br>$Exponent = \frac{2}{3}$ | | $)^{-2}$<br>$\frac{-3}{4}$<br>$nt = -2$ |
| 10) $(a-2)^{4}$<br>$Base = a-2$<br>$Exponent = 4$ | | $)^{a}$<br>$\frac{2}{3}$<br>$nt = a$ |
| 13) $5^{m-2}$<br>$Base = 5$<br>$Exponent = m-2$ | | $+q)^{0}$<br>$p+q$<br>$nt = 0$ |
| 16) $(m+5n)^{-q}$<br>$Base = m+5n$<br>$Exponent = -q$ | 17) $(1+2p)^{\frac{-a}{b}}$<br>$Base = 1+2p$<br>$Exponent = \frac{-a}{b}$ | 18) $\left(\frac{7}{9}\right)^{-5}$<br>$Base = \frac{7}{9}$<br>$Exponent = -5$ |

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