2.2 Powers of Tens \& the Zero Exponent

Zero Exponent LAW
A power with any base (other than zeno) that has a 0 exponent $=1$
Ex, \#1
(a) $6^{\circ}$
(b) $(-5)^{\circ}$
(c) $-2^{0}=-(2)^{\circ}$ $=-1$
base -5 base: 2
Writing Numbers Using Powers of 10
write 3452 using powers of 10
thousands
.
hundreds tens ones
decimal
place

$$
\begin{aligned}
3452 & =3000+400+\frac{50}{1}+2 \\
& =(3 \times 1000)+(4 \times 100)+(5 \times 10)+(2 \times 1) \\
& =\left(3 \times 10^{3}\right)+\left(4 \times 10^{2}\right)+(5 \times 101)+\left(2 \times 10^{0}\right)
\end{aligned}
$$

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