

- 33 (scale) There is a tradition in programming languages to use a scale operator,  $e$ , in the limited context of digit sequences. Thus  $12e3 = 12 \times 10^3$ . Consider using the scale notation with arbitrary expressions, not just digits. For example,  $(6+6)e(5-2) = 12e3$ . What changes are needed to the number axioms?

After trying the question, scroll down to the solution.

§ Just add the axiom  
 $x e y = x \times 10^y$