Try solving all of the following without a calculator – see what you can remember!



1. For all three problems, the instructions are to use the digits 0-9 (each at most once) to make the sentence true:



1. Simplify the following expressions such that they have no negative exponents:

 

If $x=\frac{2}{3}$, $y=\frac{4}{5}$, $z=-\frac{1}{2}$, what is the value of each question above that has x,y,z variables (\*no calc)

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1. Challenge: Rewrite $\frac{3a^{2}b^{4}}{2c^{3}}$ in terms of x if $a=x^{2}$, $b=2x^{3}$, $c=3x^{3}$
2. High Challenge:

Which of the following options is equivalent to the following expression?

