

Pokémon Red/Green/Blue

You've defeated the four challengers in the Hoenn Trainers Minor League:

Cadet Blue 	 Onix	 Feraligatr	 Totodile
Ivory 	 Torchic	 Torchic	 Magby
Olive 	 Tauros	 Tauros	 No Entry
Gainsboro 	 Swinub	 Swinub	 Swinub

However, this is mere child's play compared to the Hoenn Trainers Major League! This time you'll be facing off against eight mystery Gym Leaders, each with their own intimidating line up of Pokémon:

Trainer #1			
			
	Torchic	No Entry	Torchic

Trainer #2			
			
	Skiploom	Snorlax	Snorlax

Trainer #3			
			
	Magby	Tyranitar	Torchic

Trainer #4			
			
	Torchic	Pinsir	Slowbro

Trainer #5

			
	<p>Teddiursa</p>	<p>Sunkern</p>	<p>Teddiursa</p>

Trainer #6

			
	<p>Graveler</p>	<p>No Entry</p>	<p>Gyarados</p>

Trainer #7

			
	<p>Slugma</p>	<p>Rhydon</p>	<p>Heracross</p>

Trainer #8

			
	<p>No Entry</p>	<p>No Entry</p>	<p>Tauros</p>

(jump down for solution)

Pokémon Red/Green/Blue Solution

The answer is FRACTION.

Hopefully "Hoenn Trainers Minor/Major League" (HTML) starts puzzlers off on the right path.

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he Minor League is there to reveal how the puzzle works and the Major League is what actually needs to be used in the final answer.

In the Minor League, you are given Gym Leaders' names and the three (or fewer) Pokémon they are use. The trainer's names are all HTML color names which are synonyms for very specific shades. (i.e. #000000 can also be coded as "Black" in HTML but #010000 is not a specifically named color.) This may not be easily recognizable, but searching for "Cadet Blue Ivory Olive Gainsboro" will probably get you to a page that lists HTML color names with their corresponding codes.

So, then the puzzler knows that these names have six-digit codes connected to them. i.e. Cadet Blue is #5F9EA0. And the only other thing connected to this Gym Leader is his team: Onix, Totodile, Feraligatr. Hopefully puzzlers will think to look up facts about these Pokémon or will think about why hexadecimal is important at this point. The trick here is that all Pokémon are assigned Pokedex numbers. Cadet Blue's team: Onix (95), Totodile (158), Feraligatr (160). The Pokedex numbers are of course in decimal, but if you put each separate number into hexadecimal (there are plenty of conversion tools online), the hex numbers are $\text{hex}(95) = 5F$, $\text{hex}(158) = 9E$, $\text{hex}(160) = A0$. These are the RGB (red/green/blue) values to make the specific shade called Cadet Blue.

So there's the rub! Each Pokémon trio is representing the RGB values for the color name. You only really need one name in the minor league to figure this out (and perhaps 8 is misleading/too many) but I decided 8 would be consistent and would clue the puzzlers into odd things like Torchic appearing multiple times or "no entry" listed a lot. Torchic's number is #255, which is the maximum value for something in hex (since 16^2 is 256), and "no entry" implies that there is no Pokémon there, so the number can be 0, the minimum value for something in hex. These are helpful things to notice, but not necessary. In the Major League, you need to solve backwards: take each Pokémon trio, find their Pokedex numbers, convert each number to hex, look up what those six-digit codes are named in HTML.

After that you should have all 8 of the Major League Gym Leaders' names:

Fuchsia, **R**osy Brown, **A**lice Blue, **C**oral, **T**histle, **I**ndigo, **O**rchid, **N**avy

Taking the first letter of each name gets the answer, FRACTION.