

	Yellow	Blue	White	
Gumdrops	9		GW	All Gumdrops = x
Jellybeans			JW	All Jellybeans = y
Mints	MY	MB	MW = ?	All mints = z
	All Yellow = a	All Blue = b	All white = c	

All Gumdrops + All Jellybeans - (GW+JW) = 9

$x + y - (\text{All white} - \text{MW}) = 9$

$x + y - c + \text{MW} = 9 \dots\dots\dots(1)$

All Yellow + All Blue - (MY+MB) = 9

$a + b - (\text{All mints} - \text{MW}) = 9$

$a + b - z + \text{MW} = 9 \dots\dots\dots(2)$

Also given

$a = 2x$

$b = 2y$

$z = 2c$

Using in (2)

$2x + 2y - 2c + \text{MW} = 9 \dots\dots\dots(3)$

Solving (1) and (3)

$\text{MW} = 9$

Number of White Mints Left = 9

Initial number of white mints = 10

So Number of white mints eaten = 1