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Discussion 325

Problem 1. If 36 days are picked at rondom from a 2018 calendar, then at least 6 days must fall or the clay of the week. Prove by contradiction. Assumer 36 days are picked at random from a calendar Attis not true that 6 days fall on-sanic day of the week. Proof: (1) There are 7 days in one week. So there are 7 different cases when a day is (2) If the days picked are epread out evenly across the week, then the eighth days	17
If 36 days are picked at rondom from a 2018 colendar, then at least 6 days must fall or the clay of the week. Prove by contradiction. Ascume: 36 days are picked at random from a colendar Attis not true that 6 days fall on-same day of the week. Proof: (1) There are 7 days in one week. So there are 7 different cases when a day is (2) If the days picked are expressed out evenly across the week, then the eighth day is	
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(2) If the days picked are spread out evenly across the week, then the eighth day	\
tall on a day of the week that already has a pick. (3) Using this logic, strice 5 x 7 = 35, 35 days spread out everly will result in each day of the week howing 5 picks. (4) Now, once the 31th day is picked, all possible cases will result in at least day of the week howing 6 picks. (5) This is inconsistent with the second part of the assumption.	ر الس
i. by contradiction, if 36 days are picked at random from a 2018 calendar, then a least 6 days must fall on the same day of the week.	d
Prove: min(x,y) = x+y-1x-y1; x,y & P. Proof: Assume x and y are real numbers. Show min(x,y) = x+y-1x-y1 (onsider the following)	C18.00
Proof: Hissume x and g are real numbers. show military 2. consider the randowing	Lubes .
(ase, 1: X-y>0 This implies x>y	
$\min(x,y) = \frac{x+y-(x-y)}{2}$ $y = \frac{x+y-(x-y)}{2}$; definition of absolute value, $ x-y = x-y$ (since $ x-y > 2y$	0)