



Alg 2 PSAT/SAT practice Tues, March 24, 2020

21

Dreams Recalled during One Week

	None	1 to 4	5 or more	Total
Group X	15	28	57	100
Group Y	21	11	68	100
Total	36	39	125	200

The data in the table above were produced by a sleep researcher studying the number of dreams people recall when asked to record their dreams for one week. Group X consisted of 100 people who observed early bedtimes, and Group Y consisted of 100 people who observed later bedtimes. If a person is chosen at random from those who recalled at least 1 dream, what is the probability that the person belonged to Group Y?

- A)  $\frac{68}{100}$
- B)  $\frac{79}{100}$
- C)  $\frac{79}{164}$
- D)  $\frac{164}{200}$





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ANSWERS

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TOTAL #  
people  
who  
recalled  
at least  
one dream  
= 39 + 125  
= 164

$$11 + 68 = 79$$

$P(\text{Belong to group Y if recall at least 1 dream})$

$$= \frac{79}{164}$$

TOTAL

 part of  
TOTAL