

Students, Count Off!! (A)

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Possible Solution Strategy

Clue 1: # of students is odd

Clue 2: # of students is not a multiple of 3

Clue 3: # of students is not a multiple of 5

All Clues: # of students is one less than a multiple of 2, 3, and 5

LCM of 2, 3, and 5 is 30. One less than 30 is 29. There are 29 students.

Number	Remainder is 1 when number is divided by 2	Remainder is 2 when number is divided by 3	Remainder is 0 when number is divided by 5
11	Yes	Yes	
12	X	X	
13	Yes	X	
14	X	Yes	
15	Yes	X	
16	X	X	
17	Yes	Yes	
18	X	X	
19	Yes	X	
20	X	Yes	
21	Yes	X	
22	X	X	
23	Yes	Yes	
24	X	X	
25	Yes	X	
26	X	Yes	
27	Yes	X	
28	X	X	
29	Yes	Yes	