

Grade 7 Mathematics Sample SR Item



MAT.07.SR.1.000SP.G.289

Sample Item ID:	MAT.07.SR.1.000SP.G.289
Grade:	07
Claim(s):	Claim 1: Concepts and Procedures Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.
Assessment Target(s):	1 G: Use random sampling to draw inferences about a population.
Content Domain:	Statistics and Probability
Standard(s):	7.SP.1
Mathematical Practice(s):	1, 2, 3
DOK:	2
Item Type:	SR
Score Points:	1
Difficulty:	M
Key:	C
Stimulus/Source:	Data table
Target-Specific Attributes (e.g., accessibility issues):	
Notes:	

Amanda asked a random sample of 40 students from her school to identify their birth month. There are 300 students in her school. Amanda's data is shown in this table.

Student Birth Months

Birth Month	Number of Students
January	3
February	0
March	3
April	10
May	4
June	3
July	4
August	3
September	2
October	2
November	3
December	3

Which of these statements is **best** supported by the data?

- A. Exactly 25% of the students in Amanda's school have April as their birth month.
- B. There are no students in Amanda's school that have a February birth month.

- C. There are probably more students at Amanda's school with an April birth month than a July birth month.
- D. There are probably more students at Amanda's school with a July birth month than a June birth month.

Key and Distractor Analysis:

- A. bases the inference on the exact figures calculated from the table
- B. no one in the sample has a February birth month
- C. Key
- D. not strongly supported by the data