Calculator Steps

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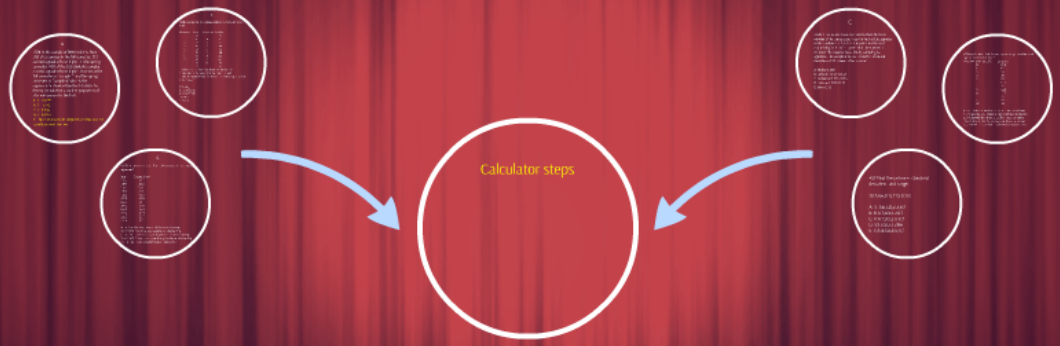

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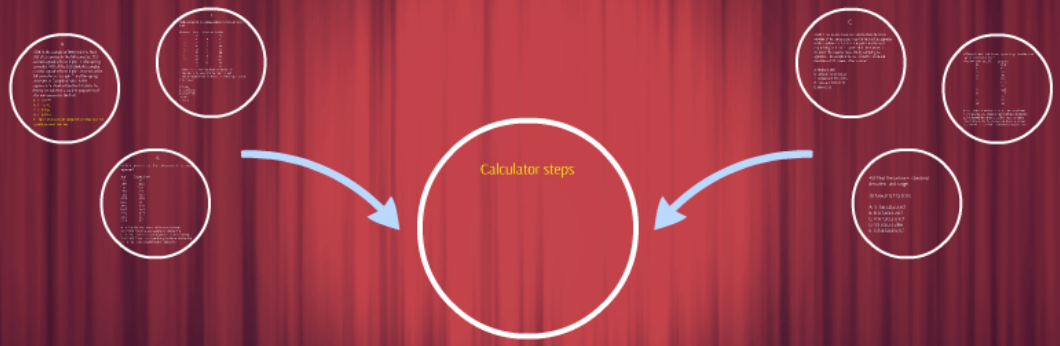

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B

*358 In the sample of 500 students from statistics courses in the fall semester, 312 earned a grade of C or higher. In the spring semester, 400 of the 525 students sampled earned a grade of C or higher. If we treat the fall semester as "sample 1" and the spring semester as "sample 2", what is the appropriate standardized test statistic to determine whether a smaller proportion of students passed in the fall?

A: z=-6.699
B: z=-4.792
C: Z=4.792
D: Z=6.699
E: The z-test statistic depends on the level of significance of the test

C

*100 compare the two datasets below. Which statement is true?

Absences	Final	Absences	Midterm
1	81	1	75
0	90	0	80
2	86	2	91
3	76	3	80
6	58	6	62
4	75	4	90
7	44	7	60
2	88	2	82
0	94	0	89
1	93	1	86

1. Absences are a better predictor of final grade.
2. The sum of the residuals is the same for both.
3. The unexplained variation in the final is much greater than in the midterm.

A: 1 only
B: 1 and 2 only
C: 1 and 2 only
D: 2 only
E: 3 only

C

*95 From time series data, Find r. What does r tell us about regression?

Year	Exports ($mm)
1995	37.1
1996	30.5
1997	29.4
1998	27.4
1999	26.5
2000	29.4
2001	27.1
2002	29.0
2003	29.3
2004	45.9
2005	36.7
2006	43.1

A: r=0.258. There is a very weak linear relationship.
B: r=-0.258. There is a very weak linear relationship.
C: r=0.488. There is a very weak positive linear relationship.
D: r=-0.488. There is a very weak negative linear relationship.
E: r=-0.488. There is no distribution relationship.

Calc

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