

[3-CAS.S04.28] A pizza delivery company has purchased an automobile liability policy for its delivery drivers from the same insurance company for the past five years. The number of claims filed by the pizza delivery company as the result of at-fault accidents caused by its drivers is shown below:

Year	Claims
2002	4
2001	1
2000	3
1999	2
1998	15

$$\begin{array}{r} (X-\mu)^2 \\ 1 \\ 16 \\ 4 \\ 9 \\ 100 \end{array} \quad \begin{array}{r} (X-\mu)^3 \\ -1 \\ -64 \\ -8 \\ -27 \\ 1,000 \end{array}$$

Calculate the skewness of the empirical distribution of the number of claims per year.

$$\mu = \frac{4+1+3+2+15}{5} = 5$$

$$\text{skew} = \frac{\mu_3}{\sigma^3} = \frac{\frac{1}{5}(900)}{\left[\frac{1}{5}(130)\right]^{3/2}} = 1.36$$

- A. Less than 0.50
- B. At least 0.50, but less than 0.75
- C. At least 0.75, but less than 1.00
- D. At least 1.00, but less than 1.25
- E. At least 1.25