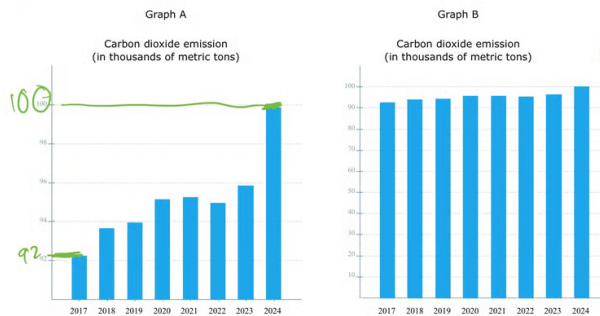


Stats /

Understanding how adjusting the vertical scale can make a graph misleading

Understanding how adjusting the vertical scale can make a graph misleading

Graph A and Graph B both show the carbon dioxide emission, in thousands of metric tons, from a local power plant for the years 2017 through 2024. (Both graphs show exactly the same data.)



(a) Give a rough estimate of the change in yearly carbon dioxide emission from 2017 to 2024. (Choose the best answer.)

- ☒ It increased by about 10%.
- ☐ It more than doubled.
- ☐ It decreased by a factor of 10, so in 2024 the yearly carbon dioxide emission was only $\frac{1}{10}$ of what it was in 2017.
- ☐ It increased by a factor of 10, so in 2024 the yearly carbon dioxide emission was 10 times what it was in 2017.

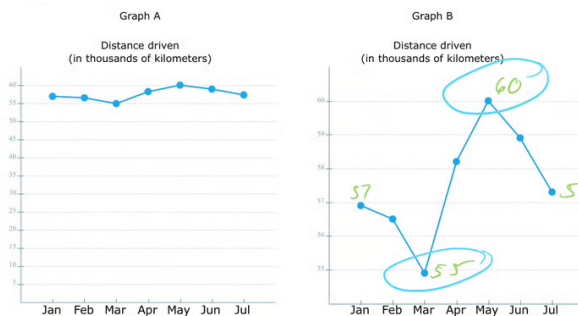
(b) Approximate to the nearest whole number (in thousands of metric tons) the change in the yearly carbon dioxide emission from 2017 to 2024.

thousand metric tons

Note: The Solve feature is not available to stud

Understanding how adjusting the vertical scale can make a graph misleading

Graph A and Graph B both show the distance driven by a fleet of company cars (in thousands of kilometers) during the months from January to July. (Both graphs show exactly the same data.)



(a) Explain how the monthly distance driven changed between January and July.

- ☒ It fluctuated within a small range of about 10% of the starting value. Overall, there was no significant increase or decrease.
- ☐ It fluctuated widely during that period. Some months it doubled and other months it halved. But overall, there was no significant increase or decrease.
- ☐ It fluctuated widely during that period. Overall, it more than doubled from January to July.
- ☐ It fluctuated widely during that period. Overall, it decreased by $\frac{1}{2}$ from January to July.

(b) Approximate to the nearest whole number (in thousands of kilometers) the difference between the maximum monthly distance driven and the minimum monthly distance driven.

thousand kilometers

Note: The Solve feature is not available to stu