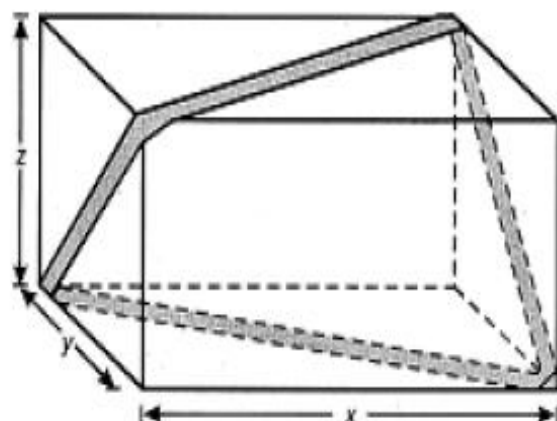


36. Use the diagram below to answer the question that follows.



A gift box has dimensions x by y by z . A decorative ribbon is wrapped across the diagonals of the box as shown above. Which of the following expressions represents the approximate total length of the ribbon?

- A. $2(\sqrt{xy} + \sqrt{yz})$
- B. $2(\sqrt{xy} + \sqrt{yz} + \sqrt{zx})$
- C. $2(\sqrt{x^2 + y^2} + \sqrt{y^2 + z^2})$
- D. $2(\sqrt{x^2 + y^2} + \sqrt{y^2 + z^2} + \sqrt{z^2 + x^2})$