

Question #34792

Convert 5.00 cubic feet of water to gallons.

Solution:

British gallon equal 277.42 cubic inches, American gallon equal 231 cubic inches. 5 cubic feet equal $5 \cdot 12^3 = 8640$ cubic inches. So, 5 cubic feet equal $\frac{8640}{277.42} = 31.14$ British gallons and $\frac{8640}{231} = 37.40$ American gallons.

Answer: 5.00 cubic feet equal 31.14 British gallons or 37.40 American gallons.