6 A graph of red shift against distance in metres was plotted for a range of nearby galaxies. The value of the gradient of the graph was 5.4×10^{-27}

Which of the following expressions gives a value for the Hubble constant in s^{-1}?

☒ **A** 5.4×10^{-27}

☒ **B** $\dfrac{3 \times 10^8}{5.4 \times 10^{-27}}$

☒ **C** $\dfrac{1}{3 \times 10^8 \times 5.4 \times 10^{-27}}$

☒ **D** $3 \times 10^8 \times 5.4 \times 10^{-27}$

(Total for Question 6 = 1 mark)