

Convert 1 knot to rods/day given that 1 day = 24 hrs, 1 hr = 3600 s, 1 rod = 16.5 ft, and 1 knot = 1.688 ft/s.

SOLUTION:

$$(1 \text{ knot}) \left(\frac{1.688 \text{ ft/s}}{1 \text{ knot}} \right) \left(\frac{1 \text{ rod}}{16.5 \text{ ft}} \right) \left(\frac{3600 \text{ s}}{1 \text{ hr}} \right) \left(\frac{24 \text{ hr}}{1 \text{ day}} \right) = 8839 \frac{\text{rod}}{\text{day}}$$