π IN THE SKY[8]

Answer Key

Whirling Wonder

How fast, in rotations per minute, do Ingenuity's blades spin?

1. **Convert radians to rotations per minute (1 rotation = 2π radians).**

(250 rad / sec) • (60 sec / 1 min) • (1 rotation / 2π radians)

≈ 2,400 rpm

How does that compare to a typical helicopter on Earth?

1. **Divide Ingenuity rotations per minute by Earth helicopter rotations per minute.**

2,400 rpm / 500 rpm = 4.8

Ingenuity's blades spin ~ 5 times faster

500 rpm

2,400 rpm