Get in Gear Worksheet

1. Imagine two 40-tooth gears contacting each other. *When one 40-tooth gear turns once, how many times will the other 40-tooth gear turn?*

    Once, because this is a 1:1 gear ratio.

2. Now, imagine replacing one of the 40-tooth gears with an 8-tooth gear, with the 40-tooth gear turning the 8-tooth gear. *When the 40-tooth gear turns once, how many times will the 8-tooth gear turn?*

    When the 40-tooth gear turns once, the 8-tooth gear will turn 40/8 = 5 times.