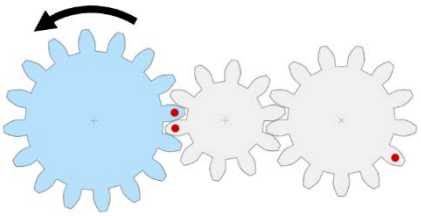
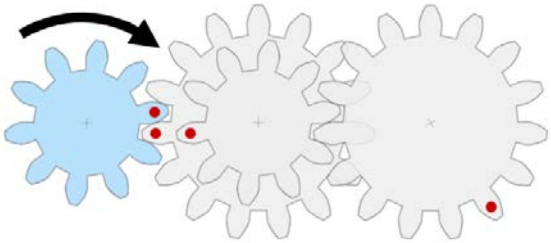
Name: _____ Date: _____

Problem 1: Calculate the gear ratio of the gear train directly counting the number of teeth of each wheel in the drawing and indicate with an arrow the direction of rotation of each wheel. Keep in mind that the driver wheel is the one on the left.

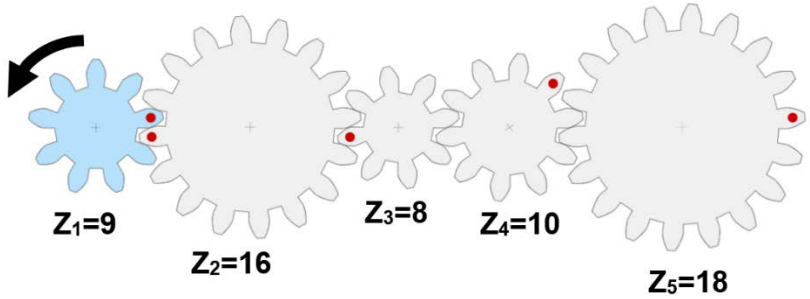


Problem 2: Calculate the gear ratio of the gear train directly counting the number of teeth of each wheel in the drawing and indicate with an arrow the direction of rotation of each wheel. Keep in mind that the driver wheel is the one on the left.

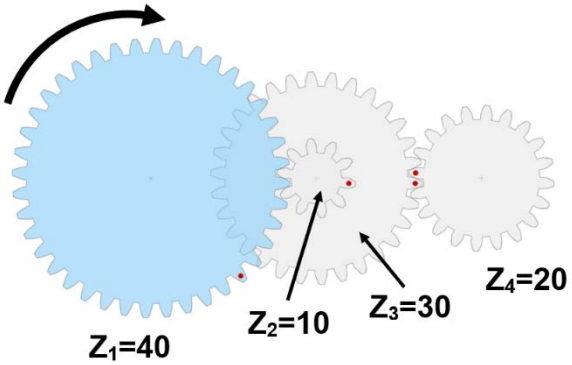
Note: the two small wheels and the two big wheels have the same number of teeth.



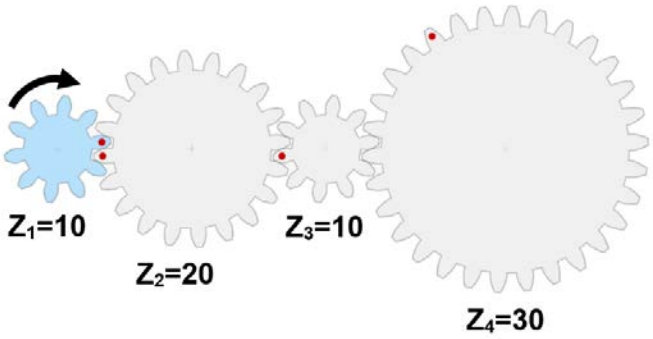
Problem 3: Calculate the gear ratio of the gear train (in this case the number of teeth of each wheel is directly indicated) and indicate with an arrow the direction of rotation of each wheel. Keep in mind that the driver wheel is the one on the left.



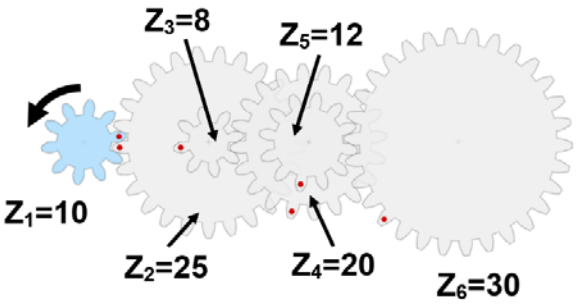
Problem 4: Calculate the gear ratio of the next gear train and indicate with an arrow the direction of rotation of each wheel. Keep in mind that the drive wheel is the far left.



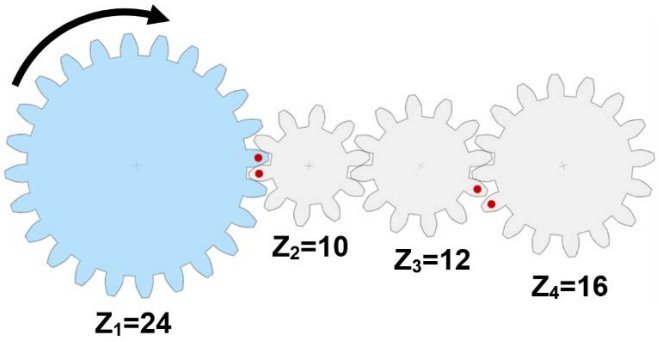
Problem 5: Calculate the speed of the rightmost wheel of the gear train knowing that the driver wheel (the one on the left) rotates at 1000rpm. Indicate with arrows the direction of rotation of each wheel.



Problem 6: Calculate the speed of the rightmost wheel of the gear train knowing that the driver wheel (the one on the left) rotates at 3000rpm. Indicate with arrows the direction of rotation of each wheel.



Problem 7: Calculate the speed of the rightmost wheel of the gear train knowing that the driver wheel (the one on the left) rotates at 250rpm. Indicate with arrows the direction of rotation of each wheel.



Problem 8: Calculate the speed of the rightmost wheel of the gear train knowing that the driver wheel (the one on the left) rotates at 20rpm. Indicate with arrows the direction of rotation of each wheel.