



Design your three gears in the space below

Draw your gears and state how many teeth each gear will have
Make sure to give each gear a label – either A, B, or C

Gear	Turning direction	Number of rotations if gear A is rotated once
A	Clockwise	1
B		
C		





Answer the questions below

1. Were your predictions for each gears direction correct?

Gear B: _____

Gear C: _____

Further notes:

2. Were your predictions for each gears number of rotations correct?

Gear B: _____

Gear C: _____

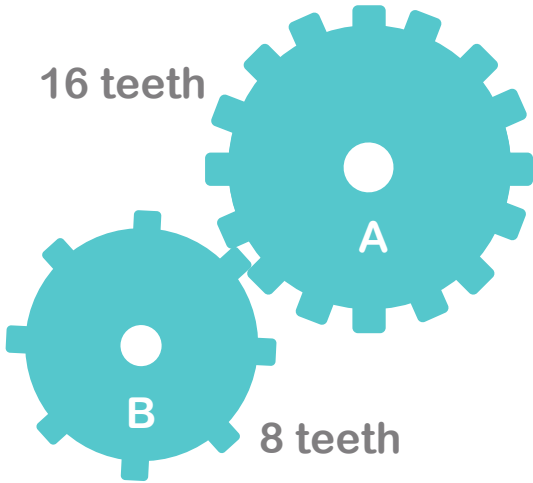
Further notes:





How many times will each gear turn?

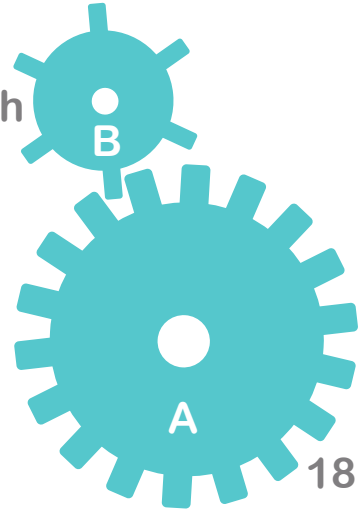
16 teeth



8 teeth

If gear A rotates once. Gear B will rotate _____

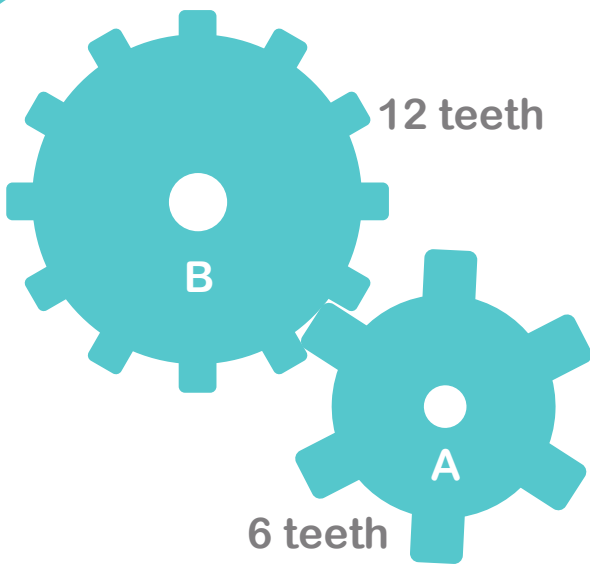
6 teeth



18 teeth

If gear A rotates once. Gear B will rotate _____

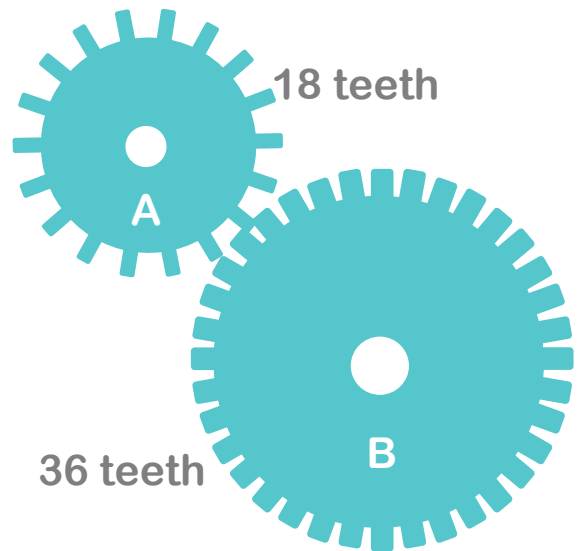
12 teeth



6 teeth

If gear A rotates twice. Gear B will rotate _____

18 teeth



36 teeth

If gear A rotates six times. Gear B will rotate _____