Levers and Gears homework sheet

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| Levers | |
| What class of lever is an oar on a rowboat?  **Class 1** |  |
| What class of lever is a bicycle hand brake?  **Class 1** | https://r4u8h2y4.map2.ssl.hwcdn.net/header/parts_brake_levers.jpg |
| What class of lever is a human arm?  **Class 3** |  |
| What class of lever is a bottle opener?  **Class 2** | http://cdn1-www.craveonline.com/assets/uploads/2015/09/GettyImages-119498291-e1442877173573.jpg |
| What class of lever is a stapler remover?  **Class 3** | http://s7d1.scene7.com/is/image/officedepot/427111_scene7?$OD-Dynamic$&wid=450&hei=450 |

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| Gears | |
| Gear A is rotating clockwise. In which direction with Gears B and C rotate?  **B anti-clockwise**  **C clockwise** |  |
| Gear A is rotating clockwise. In which directions will the other gears rotate?  **B anti-clockwise**  **C anti-clockwise**  **D clockwise** |  |
| What’s the gear ratio between Gear A and Gear B?  **32/16 = 2**  What’s the gear ratio between Gear C and Gear D?  **42/14 = 3**  How many times does Gear A have to turn to result in Gear D competing one revolution  **6**  If the Driver gear (A) is rotating anti-clockwise which direction is gear D rotating  **Anti-clockwise** | http://aerodrive.bstc.edu.hk/~yeungkh/dt/guide-gear2004.files/image004.gif |