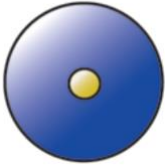

Some Tech Review

Here are some exam-styled questions about the tech chapter to practice with.

1. A cam and follower system transforms the rotational motion of a cam into the reciprocating translational motion of a follower.

Which cam below would **not allow** for both clockwise and counter-clockwise motion?

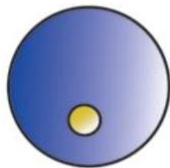
a.



c.



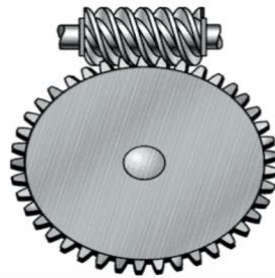
b.



d.



2. This illustration shows a worm and worm gear system.



How much does the gear turn per full rotation of the worm?

Is this system reversible or non-reversible?

3. Alex and Sara are preparing to face off in a competition to see who can build the faster remote control car. Alex's car will have a chain and sprocket system to turn the wheels and Sara's wheels will turn via a belt and pulley system.

State one **advantage** and one **disadvantage** that Alex will face with the **chain and sprocket** system.

Advantage: _____

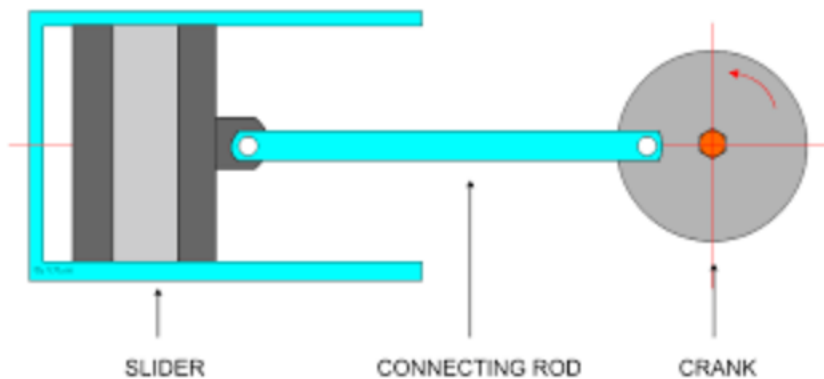
Disadvantage: _____

Now, state one **advantage** and one **disadvantage** that Sara will face with the **belt and pulley** system.

Advantage: _____

Disadvantage: _____

4. Here is a slider-crank system. Find 2 ways in which you could get **greater translational motion** of the slider.



Method 1: _____

Method 2: _____