Gears Pre-Quiz

1. Gears affect:
   a. Speed of rotation only
   b. Ability to pull or lift only
   c. Work done
   d. Both speed and ability to lift or pull

2. For a truck that needs to pull a lot of weight:
   a. Use a high gear ratio (wheels will spin slowly)
   b. Use a low gear ratio (wheels will spin quickly)
   c. The gear ratio doesn't matter
   d. No gears should be used at all

3. Using a simple machine affects the total amount of work done.
   a. true
   b. false

4. Gears are useful.
   a. true
   b. false

5. Gears are used in engineering designs to: (select all that apply)
   a. help lift a heavy load
   b. make things look nice while spinning
   c. make wheels spin faster
   d. measure speed