

How it works assignment. Gears/Pulley/Transmissions

Read the three segments on gears, pulleys, and transmissions and answer the following questions.

1. Define what a gear is: _____
2. List 10 devices that use gears.
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
 7. _____
 8. _____
 9. _____
 10. _____
3. When 2 gears are running together the larger one is called the _____ and the smaller is called the _____.
4. The gear ratio is the ratio of: _____
5. If a pinion has 80 teeth and the wheel has 320 the ratio is ____:____, and the wheel will make _____ revolution for every _____ of the pinion.
6. What is an idler gear and where is it used. _____

7. What is backlash? _____

8. The most common type of gear is the _____.
9. List the 6 common types of gears.
 1. _____
 2. _____
 3. _____
 4. _____
 5. _____
 6. _____
10. List the two uses of pulleys:

11. How to drive pulley react in overload conditions? _____

12. Describe the phenomenon known as creep. _____

13. What is the function of a differential? _____
