

## Speed changes in motion transmission systems

AST
PAGES 442-445
Complete this Concept
Review so you can keep
a record of what
you have learned.

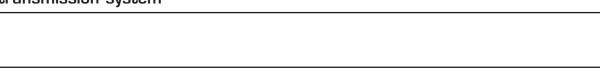
## Definition

A speed change occurs in a motion transmission system when
• Torque
Engine torque
Resisting torque

## Rotational speed changes caused by strength differences between engine torque and resisting torque

Comparison of torque strength	Effect on speed of components
Engine torque = resisting torque	
Engine torque > resisting torque	
Engine torque < resisting torque	

Calculation of	f speed	ratio	in	а	motion
transmission	system	1			



Name: Date: Date:
Speed changes in worm and worm gear systems
On a gear, the greater the number of teeth,

## Speed changes in other motion transmission systems

Speed change	Friction gear systems Belt and pulley systems	Gear trains Chain and sprocket systems
	Motion is transmitted	Motion is transmitted
	Motion is transmitted	Motion is transmitted
	Motion is transmitted	Motion is transmitted