

**Virtual Lab: The Cell Cycle and Cancer
Worksheet**

1. In which phase of mitosis do each of the following occur:
 - a. Centromeres split and chromosomes move toward opposite sides of the cell
 - b. Chromatin coils to form visible chromosomes
 - c. The nuclear membrane disappears
 - d. Sister chromatids line up in the center of the cell

2. In which phases of mitosis are sister chromatids visible, and attached to each other at the centromere?

Table 1: Record your data for the number of cells in each stage of the cell cycle observed in normal tissues.

Tissue Type	# Cells in Interphase	# Cells in Prophase	# Cells in Metaphase	# Cells in Anaphase	# Cells in Telophase
Lung Tissue Sample 1					
Lung Tissue Sample 2					
Stomach Tissue Sample 1					
Stomach Tissue Sample 2					
Ovarian Tissue Sample 1					
Ovarian Tissue Sample 2					

Cell Cycle And Cancer Virtual Lab Worksheet Answer Key

Nicholas B. La Thangue



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Cell Cycle Regulation and Cancer Nicholas B. La Thangue, 1995

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tie rod helps the wheels to turn by pushing the steering arm ackerman condition ackerman condition for a two wheeled
steering is expressed as here track width distance between left and right knuckles

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32 mechanism which consists following parts rack

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rack and pinion based on the pinion s module number of teeth pressure angle usually 20 and profile shift the rack s teeth are
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used which converts rotational motion of steering wheel into translational motion of tie rod which in turn rotates the tires

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web jul 15 2018 to calculate the amount of travel that the pinion will have across the rack you need to look at the pinion
gear as a circle the line of action on the pinion is the pitch diameter so the circumference at this point is the distance that the
pinion will travel in one revolution the formula for circumference is

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project objectives understand rack and pinion gear mechanism come up with an innovative solution for building that design as a standard one determine the various forces that are meshed within gears

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web jan 2 2019 to determine the maximum rotational speed of the pinion simply divide the maximum linear speed of the application by the pinion circumference π diameter convert from millimeters to meters and convert from seconds linear speed m/s or ft/s to minutes rotational speed rpm n_p maximum rotational speed of pinion rpm

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web calculation examples the following are calculations for center distance a and tip and root clearance c when module $m = 2$ pinion $z_1 = 20$ gear $z_2 = 40$ reference diameter of pinion $d_1 = 20$ reference diameter of gear $d_2 = 40$ center distance $a = 40$ tip clearance $c = 0.25$

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