Mitosis Fill in the Blank

Interphase 2:43 Cells spend about % of their time in interphase. 3:08 The initial step of interphase is called ______, or the "first gap." **3:17** In G1, cells grow and make proteins and tiny versions of organs called ______. **3:39** Mature muscle cells that never divide again remain in _____ phase. **3:44** The next step of interphase is phase, or the "synthesis" phase. 3:49 During S phase, the cell makes copies of its ______. That will eventually be folded into tight bundles called . **4:13** By the end of S phase, the amount of _____ in the cell has doubled. **4:43** The last step of interphase is ______, or the "second gap." **4:57** Two protein complexes called help organize what will be divided. Mitosis & Cytokinesis **5:10** The mitotic (M) phase is shorter than interphase but includes _____ and ____. **5:27** The goal of mitosis is for the ______ to split in two. **5:30** This ensures each cell gets a complete copy of the ... 5:35 is when the cell's insides split apart. **5:43** In animal cells, the cell membrane cinches like drawstrings. This is called **5:55** In plant cells, a rigid ______ divides one cell's contents from the other.

Steps of Mitosis			
6:39 In	, chromatids condense into X-shaped chromosomes.		
6:43 Well, those	loose threads are joined	d at little points called	and now condense into
identical, connec	ted bundles, called	So together, they form	that look like X
7:00 The long str	rands forming between	centrosomes are called the	·
7:11 In	, chromosomes line	up across the middle of the	e cell.
7:23 In	, chromatids separat	te and move to opposite po	les.
7:35 In	, two new nuclear n	nembranes form.	
7:58 At the end of	of telophase, chromosor	mes spread back out in a	tangle.
Cytokinesis & C	Conclusion		
8:07 Once cytoki	nesis is finished, we ha	ave identical c	ells.
8:16 The cell cyc	ele then starts	again.	
8:20 The five sta	ges are: prophase, meta	aphase, anaphase, telophase	e, and cytokinesis –

remembered as "_____."