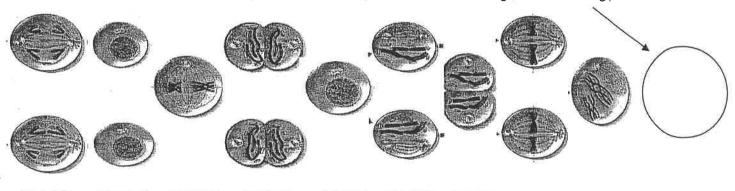
Meiosis

1) Number the phases of Meiosis (below) in the order that they occur. Then draw a diagram of the missing phase of Meiosis



Matching: match each Meiosis description or diagram below to its corresponding phase

Meiosis Phases

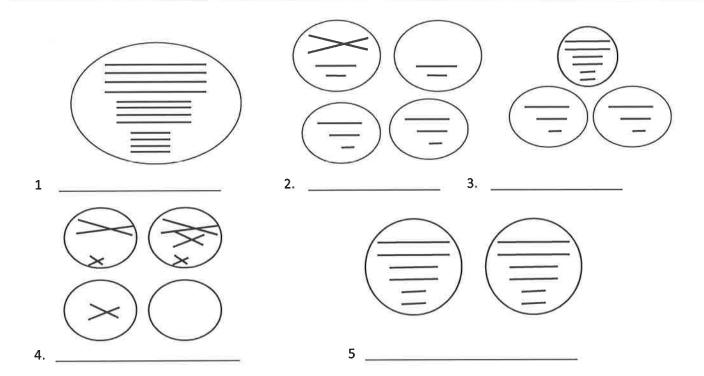
	A = Interphase 1	C = Prophase 1	E = Metaphase 1	G = Anaphase 1	i = Telophase 1
	B = Interphase 2	D = Prophase 2	F = Metaphase 2	H = Anaphase 2	J = Telophase 2
	2) "Double	e" chromosomes line up singl	e file along the equator of this	haploid cell	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	3) Homolo	gous chromosome pairs sepa	rate and "double" chromosor	nes move to opposite poles a	s spindle fibers retract
	4) DNA ex	sts as chromatin and the nucl	eolus is visible but NO DNA Re	eplication occurs •	1
	5) Homole	ogous chromosomes align side	e-by-side and crossing-over m	ay "blend" the DNA into new	gene combinations
	6) "Single	" chromosomes uncoil back ir	to chromatin as the spindle d	isappears and the nuclear me	embrane reappears
	7) Homole	ogous chromosome pairs line	up straddling the cell's equate	or	
	8) DNA ex	ists as chromatin and growth	and DNA replication occur		5 g 0
	9) "Doubl	e" chromosomes uncoll back	into chromatin as the cleavag	e furrow spilts the cell into 2	haploid daughter cells
	10) Spindl	e fibers retract, ripping the "c	ouble" chromosomes in half a	at the centromere	ο,
	11) Chrom	atin colls tightly into visible "	double" chromosomes as the	nuclear membrane disappea	rs from this haploid cell
	12) Cytoki	nesis happens producing 4 ha	ploid gametes		
	13) see dia	agram #13		\$74	
	14) see dia	agram #14			
	15) see dia	agram #15			
	16) see dia	agram #16	13	14	
	17) see dia	agram #17			
	18) see dia			4	
	•	, i			
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_	J. Se Se				

Meiosis Review BTR

What Went Wrong During Meiosis? First study your Meiosis FLIP BOOK diagrams (2n=6) and then identify what went wrong during meiosis (to create each gamete diagram below at the end of meiosis) by matching the appropriate choices from the list below:

- A) 1 spindle fiber pair was broken during Anaphase 1
- B) 1 spindle fiber pair was broken during Anaphase 2 in 1 cell
- C) 1 spindle fiber pair was broken during Anaphase 2 in both cells
- D) 2 spindle fiber pairs were broken during Anaphase 1
- E) 2 spindle fiber pairs were broken during Anaphase 2 in 1 cell
- F) 2 spindle fiber pairs were broken in Anaphase 2 in both cells
- G) The chromatin NEVER replicated

- H) Cytokinesis failed to happen after Telophase 1
- I) Cytokinesis failed to happen after Telophase 2 in 1 cell
- J) Cytokinesis failed to happen after Telophase 2 in both cells
- K) The centrioles never formed during Prophase 1
- L) Centrioles never formed during Prophase 2 in 1 cell
- M) Centrloles never formed during Prophase 2 in both cells
- N) The chromatin replicated twice



6. Suppose a testis cell is 2n=8. Draw a diagram below of what the final result of Meiosis would look like if cytokinesis FAILED to happen after Telophase 2 in one daughter cell?