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Name _____ Date _____ Class _____

Section 10 Mendel and Meiosis, continued **Reinforcement and Study Guide**
Section 10.2 Meiosis

In your textbook, read about genes, chromosomes, and numbers.

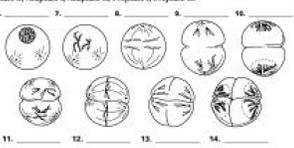
Examine the table. Then answer the questions.

Organism	Body Cell (2n)	Gamete (n)
Human	46	23
Garden pea	14	7
Fruit fly	8	4
Tomato	24	12
Dog	78	39
Chimpanzee	48	24
Leopard frog	26	13
Cart	20	10

- What is the diploid number of chromosomes in each?
- What is the haploid number of chromosomes in each?
- Is the chromosome number related to the complexity of the organism?
- How many pairs of chromosomes do humans have?
- What process results in a consistent number of chromosomes within a species?

In your textbook, read about the phases of meiosis.

Label the diagrams below. Use these choices: Metaphase I, Metaphase II, Interphase, Telophase I, Telophase II, Anaphase I, Anaphase II, Prophase I, Prophase II.



REINFORCEMENT AND STUDY GUIDE CHAPTER 10 BIODIVERSITY: The Dynamics of Life 45

Name _____ Date _____

Meiosis Worksheet

Identifying Processes On the lines provided, **order** the different stages of meiosis I THROUGH meiosis II, including interphase in the proper sequence.

- _____ homologous chromosome line up in the center of the cell
- _____ spindle fibers pull homologous pairs to ends of the cell
- _____ 4 haploid (n) daughter cells form
- _____ cells undergo a round of DNA replication
- _____ sister chromatids separate from each other
- _____ 2 haploid (n) daughter cells form
- _____ spindle fibers attach to the homologous chromosome pairs
- _____ individual chromatids move to each end of the cell
- _____ crossing-over (if any) occurs

Short Answer

10. Compare the number and type of cells that result from meiosis vs. mitosis.

11. How do the genetic contents of cells resulting from mitosis and meiosis differ?

12. **Comparing and Contrasting** Describe a similarity and a difference between meiosis I and meiosis II.

13. **Applying Concepts** If a diploid cell containing 28 chromosomes undergoes meiosis, how many chromosomes will each daughter cell have?

14. **Compare and Contrast:** How are mitosis and meiosis similar and different?

Meiosis I and II



Match the parts of the diagrams to their names or descriptions. Then answer the questions below.

1. Prophase I
2. Prophase II
3. Metaphase I
4. Anaphase I
5. Telophase I
6. Interphase I
7. Metaphase II
8. Anaphase II
9. Telophase II
10. Prophase II
11. Prophase II
12. Anaphase II
13. Telophase II
14. Cytokinesis

15. The phase where chromosomes condense and become visible is _____.

16. The phase where sister chromatids separate is _____.

17. The phase where chromosomes line up in the center of the cell is _____.

18. The phase where the cell divides into two daughter cells is _____.

19. The phase where the cell divides into four daughter cells is _____.

20. The phase where the cell divides into two daughter cells is _____.

21. The phase where the cell divides into two daughter cells is _____.

22. The phase where the cell divides into two daughter cells is _____.

23. The phase where the cell divides into two daughter cells is _____.

24. The phase where the cell divides into two daughter cells is _____.

25. The phase where the cell divides into two daughter cells is _____.

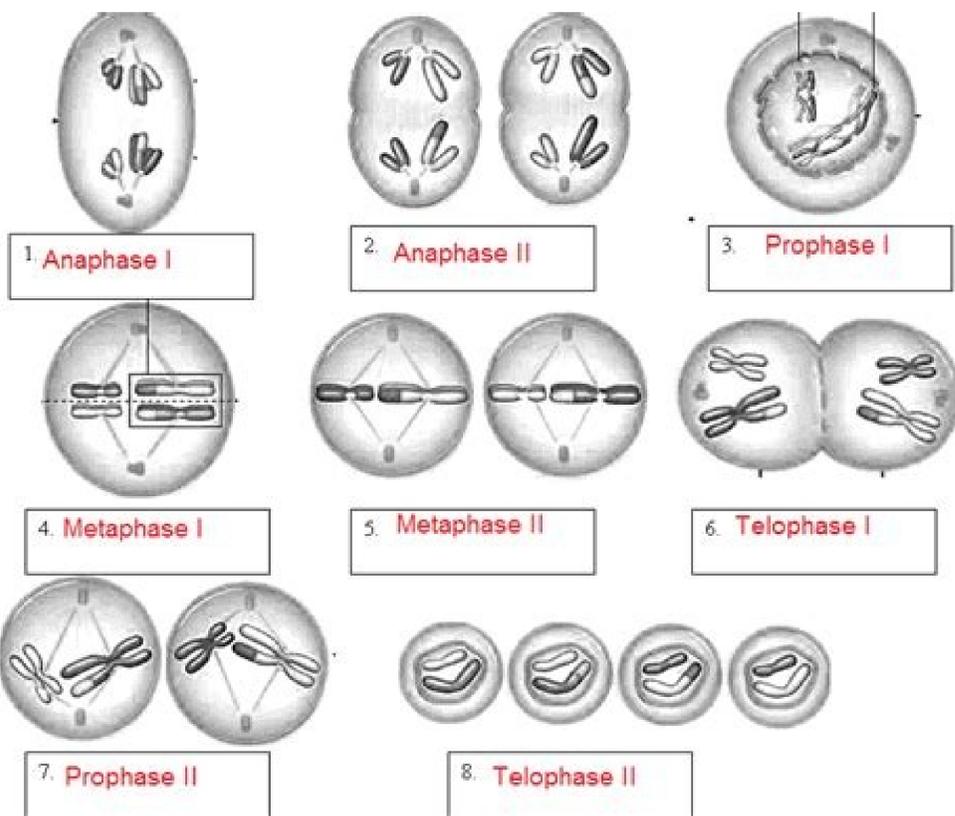
26. The phase where the cell divides into two daughter cells is _____.

27. The phase where the cell divides into two daughter cells is _____.

28. The phase where the cell divides into two daughter cells is _____.

29. The phase where the cell divides into two daughter cells is _____.

30. The phase where the cell divides into two daughter cells is _____.



Meiosis Worksheet
BIO, 1020

Name: _____

Fill in the blanks - use the words from the word bank to fill in the blanks. Words may be used more than once!

nuclear	diploid	nuclei
cell	two	
haploid	four	

Meiosis I is _____ division which produces two _____ cells each with a _____ number of chromosomes. Meiosis II is _____ division which produces _____ nuclei in _____ cells for a total of _____ nuclei. Cytokinesis after Meiosis II forms _____ cells each containing a _____ number of chromosomes.

Compare and Contrast - Describe a similarity and a difference between meiosis I and meiosis II

Identify each phase of Meiosis

Meiosis 1 and meiosis 2 worksheet answer key. Meiosis worksheet answer key. Meiosis 1 and 2 worksheet answer key. Meiosis 1 and meiosis 2 worksheet answer key pdf. Meiosis 1 and 2 worksheet answers.

(2017). Therefore, a question of ongoing research is how does the CPC elegantly re-localise throughout mitosis to save the day? •Vader, G., Medema, R. This is because everyone else knows you don't know everything, and you start to look silly by always giving a confident answer, even when it's obviously wrong. Restarting life: fertilization and the transition from meiosis to mitosis. (2001). In the worst-case scenarios, a confidently-delivered wrong answer is dangerous and expensive. Cytometry Part A, 87(5), 383-384.3)Brewer, B. These supplies typically include new precut keys, pins for the lock's tumbler that match the precut keys and specialty tools or accessories you might need to install or use to make the process easier. You may or may not need a screwdriver, depending on what's in your kit. The stages of meiosis are interphase, prophase I, metaphase I, anaphase I, telophase I, cytokinesis I, prophase II, metaphase II, anaphase II, telophase II, and finally cytokinesis II. In late mitosis, how is the cell certain that the time is right to perform cytokinesis? Cell division occurs as a part of the "cell cycle". B, 277(955), 201-226.2)ett, J. See our detailed explanation below:Another way to understand the progression of mitosis and meiosis is by thinking about what is happening to the chromosomes, centrosomes, nuclear membrane and cell plasma membrane at each stage of the process. How exactly this zipper disassembles is a hot topic of research. •Argunhan, B., Tsubouchi, T., & Tsubouchi, H. This feat is performed by a miraculous cellular zipper called the synaptonemal complex (SC). It's hard to hear. Remember that saying "I don't know" every once in a while doesn't make you look incompetent—it will actually increase your team's trust that you're always giving the truest answer you can.If you liked this column, subscribe to email alerts in the Work Life Lab and you'll never miss a post. Cell Cycle, 17(3), 273-274. •Gao, J., & Colaiacovo, M. Find the small hole on the neck of the doorknob. If some do happen to fall out, you can replace them with tweezers.Add New PinsRemove any old pins from the cylinder plug — but not from its outer sleeve. R. Maybe it's a firstborn thing? "Interphase" is a blanket term which describes all the stages before mitosis, that is: G1, S and G2 phases. Maybe it's simply being a hardcore people pleaser at heart?Whatever my reason and whatever yours, our quest to correctly answer every question can actually hold us back at work. He clearly wasn't interested in working with someone like her—and, based on what I saw, I wouldn't be either.The alternative is to think about your knowledge and ability to answer questions in three tiers: basic, stretch, and growth.You absolutely should have the basic, foundational knowledge needed to fulfill the role you're paid to play. Calling a locksmith can be costly, but fortunately, re-keying a door lock is a quick DIY project to complete yourself.Purchase a Re-Keying KitRe-keying kits come with everything you need to make your door lock compatible with a new key. (2015). Just like your day has a routine from day to night, cells have routines of their own. D. MORE FROM QUESTIONSANSWERED.NET In an intense workplace where everyone is "faking it 'til they make it," there's pressure to always have the right answer to any given question. The chromosome passenger complex (CPC) is a molecular guardian angel that acts at many stages of mitosis to safeguard the fidelity of the process. How long does it take a cell to divide? Science, 359(6371), 108-114.You might remember from above that it is the protein cohesin that holds together sister chromatids in metaphase of mitosis and metaphase II of meiosis. Most other people feel the same.By always having an answer, you inadvertently undermine your credibility. A mitosis-specific and R loop-driven ATR pathway promotes faithful chromosome segregation. I know, and I'm sorry, but it's true.You have to say, "I don't know" regularly, and here's why.Responding to questions under pressure or out of habit typically doesn't result in the most well thought-out answers. At the start of mitosis, the CPC localises all over the chromosomes and acts to modify chromatin, during mitosis it moves to the chromosome centromeres to prevent incorrect microtubule attachments and before cytokinesis the CPC finds its way to the central spindle. I get it. (2013). M. They're the most memorable. Polo is not solo in meiosis. H., & Lens, S. If you've literally mastered every angle of the job, it's time to go. Take care when removing the cylinder, too. Then, insert new pins into the cylinder in the order described in the instructions that come with your re-keying kit. and I'm going to find out" or "...I'll get back to you" or "...what do you think?"Now, this isn't an excuse not to prepare like crazy for questions you anticipate getting during your next big presentation. Your team would much rather you admit to not knowing something than fake it just for the sake of looking competent."But what if I actually do always know the answer to all the questions I'm asked at work?", you ask. Bioscience reports, 22(5), 487-499. (1977). The cell cycle is generally described as consisting of four main phases: G1, S phase, G2 and mitosis (or meiosis). P. During the question and answer portion after her pitch, she left no room for reflection or opening to take Cuban's advice. You're no longer challenging yourself. Molecular and cellular biology, 4(11), 2529-2531.4)Clift, D., & Schuh, M. Be careful during this process; if your kit doesn't come with a replacement retainer ring, you'll need to reinstall the old one, so you don't want it to get damaged.Remove the Cylinder PlugNow that the retainer ring is gone, you can pull the lock cylinder plug out of the sleeve it's in. Trans. Nature Reviews Molecular Cell Biology, 2(1), 72-6)Nurse, P. Then, follow that statement with, "... Research into the cell cycle has also been highly rewarded, with the 2001 Nobel Prize in Physiology/Medicine being awarded to Tim Hunt, Paul Nurse and Leland Hartwell for their joint discovery of cyclins and cyclin-dependent kinases: the key regulators of the cell cycle (6). Move vertically to gain greater perspective and visibility, or move laterally to a different industry to up the challenge that way. (2006). These are the most fascinating, growth-sparking questions you'll get. If you really feel that you have the answer for every issue that comes up at work, then I'd argue you've stayed too long in your current role. Nobel Lecture: Cyclin dependent kinases and cell cycle control. You really don't know everything. Purchase a re-keying kit from the brand that made your current door lock; the supplies from different brands usually aren't interchangeable.Remove the KnobUnpack everything in your re-keying kit and remove the doorknob to get started. This zipper must be strong enough to hold chromosomes together, but it must also be disassembled equally efficiently, otherwise homologous chromosomes will not accurately segregate in anaphase I, leading to a potentially disastrous genetic inequality in the daughter cells. Cells can also take a break from the grind of the cell cycle, in a state called G0 or senescence (note that some cells are permanently in G0). She came off as arrogant because she had an answer for everything. Trends in Genetics.References)Bennett, M. However, in meiosis I homologous chromosomes must be held together in metaphase I, before these ties are swiftly broken during anaphase I. It's what holds the locking pins on the top of the sleeve in place, and these pins can pop out if you don't pull the cylinder out gently. S phase is especially important as this is the point at which the cell's entire genome is duplicated through the process of semi-conservative DNA replication.The stages of mitosis are interphase, prophase, metaphase, anaphase and telophase, sometimes followed by cytokinesis. (2018). The pins may be color coded to ensure you add them in the correct order. (1984). External growth factors can stimulate cells in G1 or G0 to proceed through the rest of the cycle, an example is Nerve Growth Factor (NGF), which promotes neuron growth. Soc. Your new lock is then ready to use with the included keys. They stick with you and have the potential to change the course of your most important work.Seeking out the questions that will push you at work will not only make you grow as a person, it will also show your team that you're humble and willing to learn, two underrated but excellent qualities in a leader. Phil. Whether you're moving into a new home or you've lost your house keys again, it may be a good idea — or a necessity — to change your door locks. Walther Flemming: pioneer of mitosis research. (2002). Here we show how to do this for mitosis, why not try to recreate this table for meiosis? Pull off the knob and the lock cylinder inside it.Remove the Retainer RingYou'll see a small ring around the lock cylinder on the side opposite from the key slot. J., Chlebawicz-Sledziowska, E., & Fangman, W. And, you should intentionally put yourself in situations that will challenge your thinking by exposing you to questions you couldn't possibly expect. Advances in microscopy have had a huge impact on the field, from its humble beginnings observing metaphase chromosomes under the light microscope, to more sophisticated technologies today that can ask questions at the molecular level. Most of the time, though, it's just a colossal waste of time. There are also internal signals that tell the cell to progress, these proteins are called cyclins and the cyclin that promotes mitosis is called cyclin B. You should stretch yourself and seek answers to all the questions up and around the edges of your expertise. the questions that you're able to anticipate but don't yet know the answer to. The Journal of cell biology, 173(6), 833-837. •Kabeche, L., Nguyen, H. Maybe it's a carryover from school? I too love being right and having the most helpful advice for people. H. The restriction point is a special "point of no return" in G1 when cells no longer respond to removal of growth factors and will continue to progress to S phase no matter what. Use the removal tool in your kit or a pair of pliers to pop this ring off of the cylinder. Nature reviews Molecular cell biology, 14(9), 549-5)Pawelcz, N. With the door unlocked, push a screwdriver or the long pin included in the re-keying kit into the hole. The chromosomal passenger complex: guiding Aurora-B through mitosis. Zipping and unzipping: protein modifications regulating synaptonemal complex dynamics. Mnemonics are also helpful, for example a useful mnemonic to remember the order of the steps in mitosis is "I Prefer Mating At Teatime" - Chamillionaire.The process of cell division is an intricate dance of molecular machinery that has fascinated researchers for hundreds of years. The time and duration of meiosis. D., Buisson, R., & Zou, L. Cell cycle phases in the unequal mother/daughter cell cycles of Saccharomyces cerevisiae. However, despite our progress, many questions still remain.While there is only one way for mitosis to go right, there are many ways for it to go wrong. L. I recently saw an episode of Shark Tank where the contestant was turned down by Mark Cuban. Lond. If your kit didn't come with a special tool for this process, use tweezers to set the new pins into the cylinder.Once the new pins are in, reassemble the lock by following the steps above in reverse order. For example, in early mitosis, if there are incorrect contacts between microtubules and chromosomes, chromosomes can become misaligned, which can lead to incorrect segregation of sister chromatids. I love not wasting time even more than I love having the right answer. Either strategy works to break out of stagnation.Instead of always providing an answer, I propose a simple strategy: Say "I don't know" when you don't know.

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