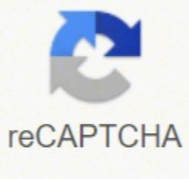




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Genetics and Heredity Unit Study Guide/Practice Test 2013-2014

Section 1 Cell Division

What are the two types of cell division that we have discussed in this unit?

1. **Mitosis** 2. **Meiosis**

Complete the following chart:

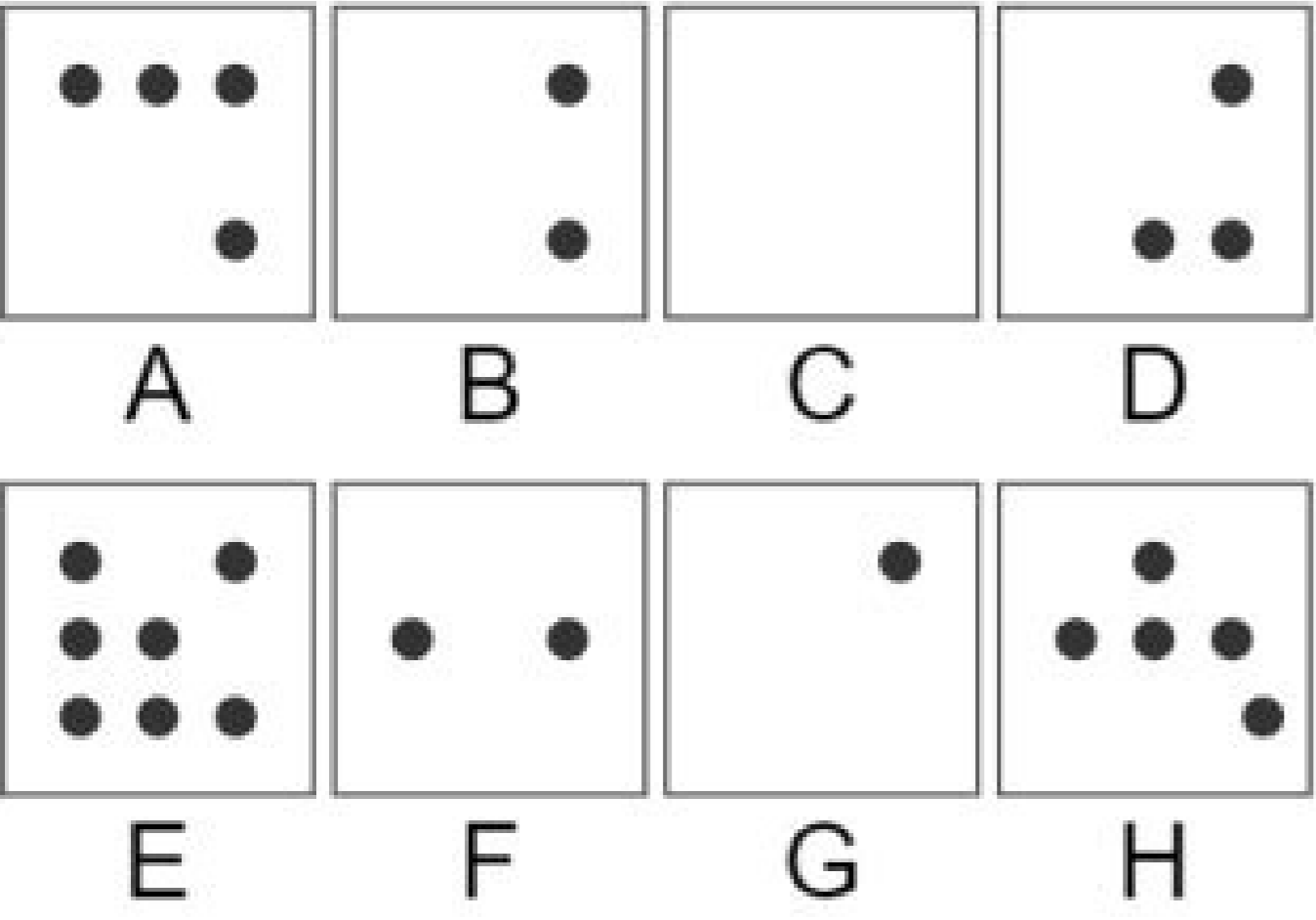
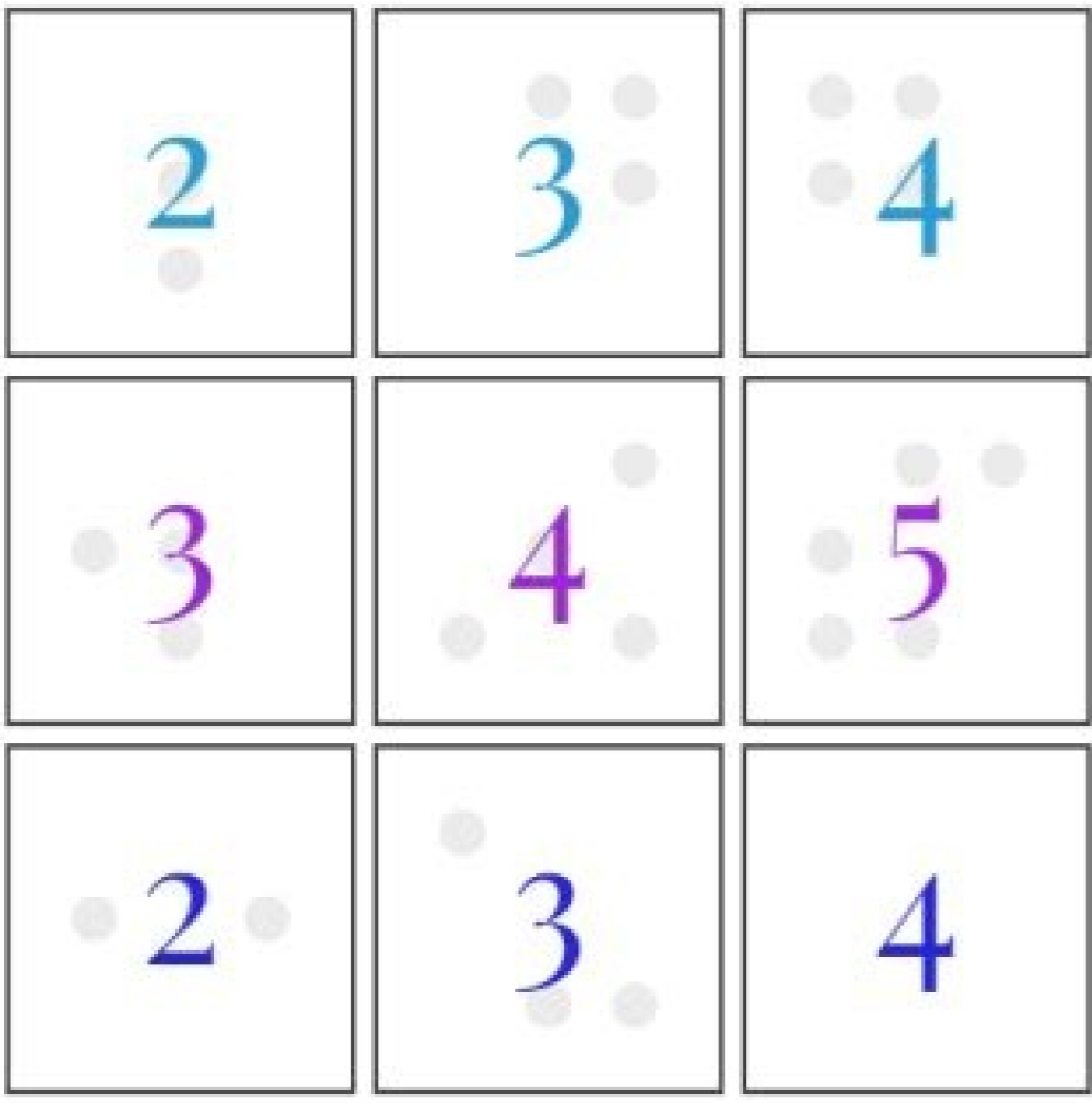
Type of cell division	Mitosis	Meiosis
Cell starts out as a body (somatic) or sex cell?	Somatic cell	Somatic cell
Function of this process	To create more somatic cells. Growth and repair of body cells, tissues, and organs.	Production of gametes (egg and sperm)
Initial cell is haploid or diploid?	Diploid	Diploid
Nucleus divides once or twice?	Once	Twice
Number of daughter cells at end of cell division?	2	4
End product is a body (somatic) cell or gamete?	Somatic cells	Gametes
End product is diploid or haploid?	Diploid	Haploid
If there are 3 pairs of homologous chromosomes in the cell at the beginning of cell division, how many chromosomes will be in each cell at the end of cell division?	6	3

1. A human body cell contains **23** pairs of **homologous** chromosomes or a total of **46** chromosomes.

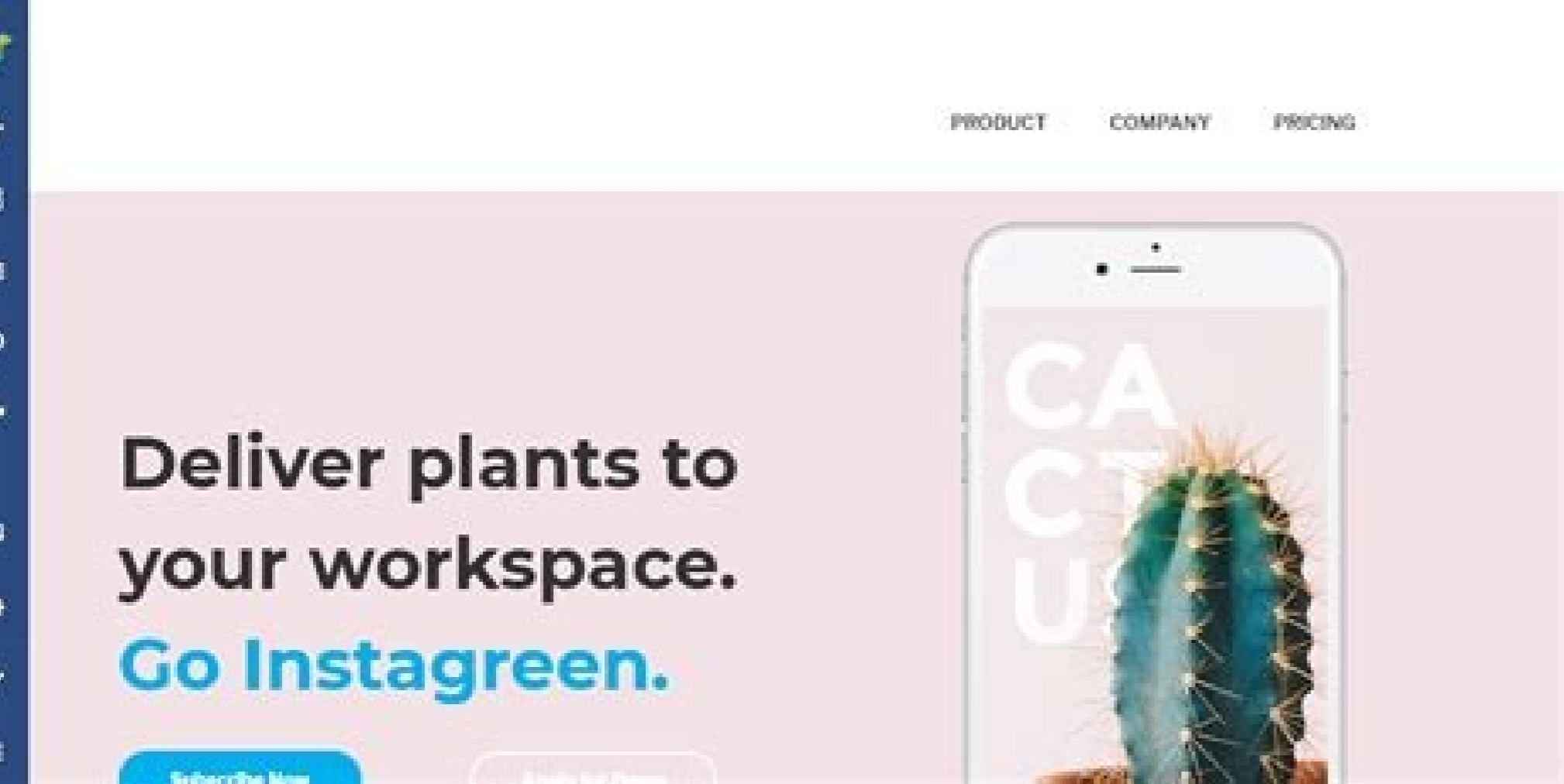
Note: Homologous chromosomes are pairs of chromosomes in which one chromosome comes from the mother and one comes from the father. Homologous chromosomes are similar but not identical. Each carries the same genes in the same order, but the alleles for each trait may not be the same.

2. What occurs during mitotic cell divisions:

During mitosis and cell division, the chromosomes duplicate and then separate. At the end of mitosis, a new nucleus forms around each new set of chromosomes and then the cell divides in a process called cytokinesis. This creates two new identical daughter cells.



Cracking the code of life questions answer key. Cracking the code of life worksheet answer key. Nova cracking the code of life answer key. Cracking the code of life video questions answer key.



Transcript provided by NPR, Copyright NPR. And that's what I found. I mean, I think I can indicate people in my field, in journalism, politics, in law, all kinds of professions that are at the top of their games in the 50, in the 60s, in the 70s and beyond. Let's just say that your adult life begins at 20 years. And this is the point. Here's where your data, your research left you, that you are optimistic about our successive years. Brooks: incredible. The things that interest you will change. And he said he wanted him to die. Type, what age? And those people we see in almost all professions that thrive older, are those who were able to do the job. Kelly: yes. No, you have to do the job. I'm a little worried about your reply. I have to say. Well, in fact it's pretty interesting since we live much longer than when I was a child. Let's not forget that there are certain things we don't want to come back. Kelly: we talked to the professor of Harvard Arthur Brooks. Arthur Brooks started answering the question. Now, if you live - I am 57 years old, and I am in perfect health as far as I know. And this is good and it's greeting. I mean, the title, "from force to strength", is not weak to weak. - Erratic values, the exception that tries the rule, what? Brooks: in general, they have discovered the secret of the success of the second half. And I discovered that there are people who deciphered the code but, more importantly, that we don't have to leave happiness in the second half of life to chance and, moreover, that we can find a new kind of success if we are willing to do some leap And some changes and show a little humility and have an adventure that is better than the first half .Kelly: Before reaching how to decipher the code, I can question the premise that there is, actually, a code from decipher? But if you have Really hard to build things, to meet your goals, to be rewarded, when it ends, it can be incredibly disconcerting, disappointing, even devastating to people. Great to be with you. Kelly: So in the three years since I've seen you, you've clearly understood that you've had a lot more to say about this topic, this topic of aging and finding success in the next life. This is a conversation about the second half of life, which you're defining as when? And I thought it was someone who must have been really disappointed in his life. And I thought to myself, what are you doing wrong? Kelly: In other words, if this really prominent, really successful person wasn't satisfied with his life, what does he say to the rest of us trying to find purpose, relevance, even Joy as we get older? And the group that goes back often includes the Stritoni, the people who have worked so hard, because the party ends. And look. Arrange for us the big question you're exploring in the book .brooks: Well, I've started doing research. No, no. I is that you don't have only one formula, you will change. His new book is "From the Power of Strength: Finding Success, Happiness and Deep Purpose in the Second Half of Life." Arthur Brooks, thank you. Brooks: Thank you. And that means you left the second half starting from 55. Kelly: And we'll notice that this is basically an optimistic book. Is the pandemic accelerating the trends you were already investigating? Brooks: Surely it can because people have had time to look inward. You can't just wish for it and you can't hope you're lucky. The things you want aren't the things you want later. It's called "From the Force of Force." Arthur Brooks, welcome to all things considered. Brooks: Thank you. The first is called fluid intelligence, which gives you the ability to solve the problems to break the case, to innovate faster and concentrate harder than all the competition ahead of time in your It's called crystallized intelligence, which is your wisdom, your ability compile the information you find in your vast library to teach better, to explain better, to form better teams - in other words, not to answer someone else's questions, but to form the right questions. KELLY: You started touching something, and I just want to follow it up. I mean, I started — he was pretty sad, the man on the plane. You say that based on the data you've collected, compiled, and analyzed. BROOKS: Yes, absolutely. The point of the work I am doing as a social scientist" not to leave your happiness the case but to significantly increase the probabilities doing the work at 25, 45 and 65 so that when you are 75 and 85 years old and over, you will be more happy¹ than you ever were. KELLY: How do you do that? In other words, there's a different formula for success in the early part of life and career than in reality. A pi¹ appropriate for the second half. And this is something we should remember when we return to the hustle and bustle of non-pandemic life, that is, assuming we return to something normal, which I think we are. If you're healthy, you can expect to live to 90 years, in which case you met of your adult life. A ended at 55 years. He'd written a piece for The Atlantic, a piece he's now turned into a book. Well, before we get there, because now you've moistened my appetite, but let me just clarify what - how you're framing this. If you don't do anything or do too much with your life, you don't know when you're done. I'm... what? I mean, just to say secrets, there seems to be some kind of hack. And so I went looking for solutions to that problem to look at the people who had cracked the code. And I thought, oh, my God, A this we should expect? One of the biggest things I have My students at Harvard Business School are convinced that what you think right now is not what you think next. How do we increase the odds? BROOKS: To begin with, there is a series of very interesting discoveries that say that the initial success is based on one of two types of intelligence. And the actuarial tables say I also have probability to live beyond the age of 95. Your opinions will change. And I found that I met population tends to become increasingly happy after age 65 or 70, and the other half of the population more¹ or less begins to fall. But then at the end of the flight, he stood up and I recognized him as someone who was truly prominent and who had done a lot with his life. You know, when I was little, the age average till death of a man was 67 years. Everyone knows that the pandemic was not something we wanted, but it was also an opportunity amazing to a lot of people. And this flexibility. A tina. KELLY: I've been thinking about this since we first talked about this topic three years ago, and the world has thrown a huge curved ball at us in the form of a pandemic. Everyone is rethinking their lives and trying to figure out how to live more productive lives¹ for longer. But then it tends to go down in your 40s and 50s, which means you have to move to the second kind of intelligence, which goes up in your 40s and 50s and even in your 60s, and you will stay high for the rest of your life. And I think I found it. OKAY. This is your brain Elon Musk. And it grows between the ages of 20 and 30. Many other people tell me similar stories about how they deepened their relationships, how they understood each other better. And again, for those who think, well, really, I introduced you as a social scientist. Again, I'm a social scientist, but A very personal. MARY LOUISE KELLY, HOST: Three years ago, in 2019, I sat down with Arthur Brooks, the writer and Scientist, he told me about an experience he had had on a plane where he found himself sitting in the row in front of a more older gentleman. Arthur Brooks: And he was talking to his wife, and I ... I didn't want to hide, but I couldn't not hear. This was, you know, a terrible scourge. This is the monthsearch (pH) more than the research, actually. Requires different skills and a different emphasis. Your abilities will change. What can we expect if we're trying to build something with our lives? For the youngest they listen, people who are definitely in the first half of life ... Brooks: right. Kelly: ... There is something that should have at the back of the head now so that they are better prepared for when there comes there? Brooks: Yes. I mean, for me, I was able to easily write this book and set a strategic plan for the rest of my life.

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