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Crash Course BIOLOGY (2012 SERIES) 40 Episode Series Bundle

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Crash Course Biology (2012) #12: Mitosis

Name: _____ Date: _____

You can access the video here → https://youtu.be/L0k-ense0M7xi-Brasb037scR_D4C

1. In body (somatic) cells, DNA is organized into 46 _____ grouped as 23 pairs.
2. Cells that contain two sets of chromosomes are _____ cells, not haploid.
3. During _____, most cells grow, work, and replicate DNA before mitosis.
4. Condensed, X-shaped duplicates attach at a central region called the _____.
5. As prophase begins, the nuclear _____ disintegrates to clear the way.
6. The protein-cylinder complex that duplicates and moves to opposite poles is the _____.
7. Ropy tracks called _____ extend between centrosomes to move chromosomes.
8. In the longest stage—_____—chromosomes align in the cell's middle.
9. Motor proteins pull on _____ to help alignment.
10. When the X-shaped pairs split and are dragged to opposite ends, the phase is _____.
11. During _____, nuclear membranes re-form and chromosomes relax into chromatin.
12. The final physical separation of the two cells is _____, following cleavage.
13. Mitosis produces two genetically _____ daughter cells with 46 chromosomes each.
14. Cells with only 23 chromosomes—eggs and sperm—are _____ cells (not covered now).
15. The messy, loosely coiled DNA seen before condensation is called _____.

Crash Course Biology (2012) #12: Mitosis - KEY

1. In body (somatic) cells, DNA is organized into 46 **chromosomes** grouped as 23 pairs.
2. Cells that contain two sets of chromosomes are **diploid** cells, not haploid.
3. During **interphase**, most cells grow, work, and replicate DNA before mitosis.
4. Condensed, X-shaped duplicates attach at a central region called the **centromere**.
5. As prophase begins, the nuclear **envelope** disintegrates to clear the way.
6. The protein-cylinder complex that duplicates and moves to opposite poles is the **centrosome**.
7. Ropy tracks called **microtubules** extend between centrosomes to move chromosomes.
8. In the longest stage—**metaphase**—chromosomes align in the cell's middle.
9. Motor proteins pull on **microtubules** to help alignment.
10. When the X-shaped pairs split and are dragged to opposite ends, the phase is **anaphase**.
11. During **telophase**, nuclear membranes re-form and chromosomes relax into chromatin.
12. The final physical separation of the two cells is **cytokinesis**, following cleavage.
13. Mitosis produces two genetically **identical** daughter cells with 46 chromosomes each.
14. Cells with only 23 chromosomes—eggs and sperm—are **haploid** cells (not covered now).
15. The messy, loosely coiled DNA seen before condensation is called **chromatin**.

15 Questions

Answer Key Included

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