

Cell Division Worksheet Answer Key

Cell Cycle (Mitosis) Reinforcement Worksheet

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|------|-------|-------|
| 1. E | 6. A | 11. A |
| 2. C | 7. E | 12. F |
| 3. C | 8. A | 13. G |
| 4. A | 9. B | 14. H |
| 5. D | 10. E | 15. B |

Mitosis Worksheet & Diagram Identification

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|------------------------------------|----------------|
| 1. Metaphase | 5. Interphase |
| 2. Half of a chromosome / Anaphase | 6. Mitosis |
| 3. Prophase | 7. Mitosis |
| 4. Tissue | 8. Interphase |
| | 9. Interphase |
| | 10. Interphase |
| | 11. Mitosis |
| | 12. Interphase |

Chromosome and Meiosis Unit – Reinforcement Worksheet

Organism	Body Cell Chromosome #	Sex Cell Chromosome #
Cat	38	19
Onion	16	8
Guinea Pig	14	7
Cow	60	30
Chicken	78	39

Organism	Sperm Chromosome #	Egg Chromosome #	Fertilized Egg Chromosome #	Chromosome # in each body cell of the offspring
Cat	19	19	38	38
Onion	8	8	16	16
Guinea Pig	7	7	14	14
Cow	30	30	60	60
Chicken	39	39	78	78

1. Female
2. Y chromosome
3. Gametes (sex cells) – sperm and egg
4. 46 / 23
5. 22 / 1
6. Half the DNA

Cell Cycle Review

1. Choose between: reproduction, repair, growth, development
2. G1, S, G2
3. DNA replication (DNA gets copied)
4. Nucleus
5. 2 diploid cells that are identical to the parent cell
6. Metaphase
7. Cytokinesis
8. Prophase
9. Telophase
10. Anaphase

	Mitosis / Cytokinesis	Meiosis
Main Purpose and location	Copy the cell	Make haploid sex cells
# of cells at the end?	2	4
# of chromosomes in the end cell (start with diploid)? haploid or diploid	Diploid	Haploid
# of divisions? 1 or 2	1	2
Are end cells identical to the parent cell? Yes or No	Yes	No
Contains paired homologous chromosomes? Yes or No	No	Yes
Crossing over occurs? Yes or No	No	Yes