

Basic Genetics (Worksheet)

Basic Genetics Worksheet

Q1. Fill in the blanks in the following sentences with suitable words.

1. _____ is defined as the passing of traits from parents to offspring.
2. _____ refers to both dominant and recessive traits. For example, the _____ of a pea plant refers to its height, such as the example of _____.
3. _____ refers to the physical characteristics of an organism.
4. _____ refers to the genetic make-up of an organism.
5. _____ is a trait that is always expressed in the phenotype of an organism.
6. _____ is a trait that is expressed only when both alleles are present.
7. _____ is a specific representation of all the possible alleles of a gene that can occur in a population for a particular trait.

Q2. Give each genotype below, identifying it as heterozygous or homozygous.

1. _____
2. _____
3. _____

Q3. What are the following characters in terms of the factor of control?

1. Eye colour in humans
2. Height in humans
3. Blood group

Q4. In pea plants, purple flowers are dominant over white flowers. Fill in the table below.

Flower colour	Genotype	Phenotype
Purple	_____	_____
White	_____	_____

What are the phenotypes of the following genotypes?

1. _____
2. _____
3. _____

Q5. In pea plants, yellow seeds are dominant over green seeds. For each phenotype below, give the genotypes for the genotypes.

Phenotype	Genotype	Phenotype
Yellow	_____	_____
Yellow	_____	_____
Yellow	_____	_____
Green	_____	_____

Q6. Write the type of the inheritance in each, which is followed by the inheritance ratio.

1. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
2. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
3. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
4. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
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6. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
7. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.
8. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.

Q7. In pea plants, yellow seeds are dominant over green seeds. In a cross, a yellow seed plant is crossed with a green seed plant. The offspring are _____.

Q8. _____ is a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.

Q9. _____ is a specific characteristic, such as a trait that is controlled by the alleles of a gene. The dominant trait is usually the one that is expressed.

Q10. Which of the following are examples of genotypes of a heterozygous organism?

1. _____
2. _____
3. _____
4. _____

Q11. In pea plants, green seeds are dominant over yellow seeds. In a cross, a green seed plant is crossed with a yellow seed plant. The offspring are _____.

	1	2
1	_____	_____
2	_____	_____

Q12. The ratio of offspring is controlled by a single gene that has two alleles. The dominant trait is usually the one that is expressed. The dominant trait is usually the one that is expressed.

	1	2
1	_____	_____
2	_____	_____

Q13. The probability of an offspring is _____.

The Cell Cycle and Mitosis - What Happens?

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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What happens during the cell cycle? The cell cycle is the process by which a cell grows and divides to produce two daughter cells.

Question	Answer
1. What is the cell cycle?	The cell cycle is the process by which a cell grows and divides to produce two daughter cells.
2. What are the stages of the cell cycle?	The stages of the cell cycle are Prophase, Metaphase, Anaphase, and Telophase.
3. What happens during Prophase?	During Prophase, the chromosomes condense and the nuclear envelope breaks down.
4. What happens during Metaphase?	During Metaphase, the chromosomes align in the center of the cell.
5. What happens during Anaphase?	During Anaphase, the sister chromatids separate and move to opposite sides of the cell.
6. What happens during Telophase?	During Telophase, the nuclear envelope reforms and the chromosomes decondense.
7. What is cytokinesis?	Cytokinesis is the process by which the cell membrane pinches off to form two daughter cells.
8. What is the purpose of the cell cycle?	The purpose of the cell cycle is to produce new cells for growth and repair.
9. What is the difference between mitosis and meiosis?	Mitosis is a type of cell division that results in two identical daughter cells. Meiosis is a type of cell division that results in four non-identical daughter cells.
10. What is the difference between a somatic cell and a germ cell?	Somatic cells are body cells that are not involved in reproduction. Germ cells are cells that are involved in reproduction.

Genetics Basics Worksheet 200answers

Lei Huang



Genetics Basics Worksheet 200answers:

This book delves into Genetics Basics Worksheet 200answers. Genetics Basics Worksheet 200answers is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Genetics Basics Worksheet 200answers, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 1: Introduction to Genetics Basics Worksheet 200answers
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 - Chapter 3: Genetics Basics Worksheet 200answers in Everyday Life
 - Chapter 4: Genetics Basics Worksheet 200answers in Specific Contexts
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This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Genetics Basics Worksheet 200answers.

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