

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 is defined as the appearance of the seed pod.
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 exist for a character in the offspring of two parents.

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

1. _____
2. _____
3. _____

Q3. Match the following characters to those in the table of genotypes.

- | | |
|----------------|-----------------|
| yellow flowers | YY (homozygous) |
| yellow seeds | yy (homozygous) |

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

Flower colour	Genotype	Phenotype
purple	YY	purple
white	yy	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	YY (homozygous)	yellow
yellow	Yy (heterozygous)	yellow
green	yy (homozygous)	green

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

1. _____ is a trait that is expressed in the offspring of two heterozygous parents.
2. _____ is a trait that is expressed in the offspring of two heterozygous parents.
3. _____ is a trait that is expressed in the offspring of two heterozygous parents.
4. _____ is a trait that is expressed in the offspring of two heterozygous parents.
5. _____ is a trait that is expressed in the offspring of two heterozygous parents.
6. _____ is a trait that is expressed in the offspring of two heterozygous parents.

Q7. In pea plants, yellow seeds are dominant over green seeds. Fill in the table.

- | | | | |
|--------|-------------------|--------|-------------------|
| yellow | YY (homozygous) | yellow | YY (homozygous) |
| yellow | Yy (heterozygous) | yellow | Yy (heterozygous) |

Q8. _____ is a specific characteristic, such as seed shape or flower colour in pea plants.

Q9. _____ is a specific characteristic, such as seed shape or flower colour in pea plants.

Q10. In pea plants, green seeds are dominant over yellow seeds. Fill in the table.

Seed colour	Genotype	Phenotype
green	YY	green
yellow	yy	yellow

Q11. The ratio of offspring is controlled by a single gene that has two alleles. Fill in the table.

Genotype	Phenotype
YY	yellow
Yy	yellow
yy	green

Q12. The probability of an offspring _____.

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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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 interphase, prophase, metaphase, anaphase, and telophase.
3. What happens during interphase?	During interphase, the cell grows and prepares for division. The DNA is replicated.
4. What happens during prophase?	During prophase, the nuclear envelope breaks down and the chromosomes condense.
5. What happens during metaphase?	During metaphase, the chromosomes align in the center of the cell.
6. What happens during anaphase?	During anaphase, the sister chromatids separate and move to opposite sides of the cell.
7. What happens during telophase?	During telophase, the nuclear envelope reforms and the chromosomes decondense.
8. What is cytokinesis?	Cytokinesis is the process by which the cell membrane pinches off to form two daughter cells.
9. What is the result of the cell cycle?	The result of the cell cycle is two daughter cells, each with the same genetic material as the parent cell.

Genetics Basics Worksheet 200answers

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