

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 expression of all the possible variations 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	PP	purple
white	pp	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 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 in the

1. _____ is a trait that is expressed in the offspring of two parents, the recessive trait is hidden in the phenotype.
2. _____ is a trait that is expressed in the offspring of two parents, the dominant trait is hidden in the phenotype.
3. _____ is a trait that is expressed in the offspring of two parents, the dominant trait is hidden in the phenotype.
4. _____ is a trait that is expressed in the offspring of two parents, the dominant trait is hidden in the phenotype.
5. _____ is a trait that is expressed in the offspring of two parents, the dominant trait is hidden in the phenotype.
6. _____ is a trait that is expressed in the offspring of two parents, the dominant trait is hidden in the phenotype.

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

1. _____
2. _____
3. _____

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

Q9. Match the following characters to those in the table of genotypes.

1. _____
2. _____
3. _____

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

Seed colour	Genotype	Phenotype
green	GG	green
yellow	gg	yellow

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

Phenotype	Genotype	Phenotype
yellow	YY (homozygous)	yellow
yellow	Yy (heterozygous)	yellow
green	yy (homozygous)	green

Q12. The probability of an offspring _____.

The Cell Cycle and Mitosis - What Happens?

1. _____
2. _____
3. _____
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99. _____
100. _____



Write down the names of the cells in the table below. How are they different from each other?

Cell type	What
Parent cell	The parent cell is the cell that divides to form two daughter cells.
Daughter cell	The daughter cell is the cell that is formed from the parent cell.
Prokaryotic cell	A cell that does not have a nucleus and other organelles.
Eukaryotic cell	A cell that has a nucleus and other organelles.
Animal cell	A cell that does not have a cell wall and a large central vacuole.
Plant cell	A cell that has a cell wall and a large central vacuole.
Red blood cell	A cell that is specialized for carrying oxygen in the blood.
White blood cell	A cell that is specialized for fighting infection.
Neuron	A cell that is specialized for transmitting electrical signals.
Epithelial cell	A cell that forms the outer layer of tissues.
Muscle cell	A cell that is specialized for contracting and relaxing.
Stomach cell	A cell that is specialized for secreting stomach acid.
Leaf cell	A cell that is specialized for photosynthesis.
Root cell	A cell that is specialized for absorbing water and minerals.
Skin cell	A cell that is specialized for protecting the body.
Hair cell	A cell that is specialized for sensing touch and pressure.
Nerve cell	A cell that is specialized for transmitting electrical signals.
Red blood cell	A cell that is specialized for carrying oxygen in the blood.
White blood cell	A cell that is specialized for fighting infection.
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TD Snyder



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web jun 28 2017 honeywell will supply its 131 9a apus to 74 asiana airlines aircraft of which 49 will be retrofitted on the airline s existing airbus a320ceo current engine option and a321ceo fleet and the remaining 25 on its new airbus a321neo fleet

131 9a 9b auxiliary power unit high efficiency mode - Jun 13 2023

web airbus and boeing narrowbody operators flying with honeywell s 131 9a and 131 9b apus can save up to 9 000 in annual fuel costs reduce co2 emissions and improve on wing time by as much as 25 with the new high efficiency mode hem upgrade many airlines have a corporate esg plan including goals for co2 emissions reduction