

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

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

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

Flower color	Genotype	Phenotype
_____	YY	_____
_____	yy	_____
_____	Yy	_____

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
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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 phenotype of an organism.
2. _____ is a trait that is expressed in the phenotype of an organism.
3. _____ is a trait that is expressed in the phenotype of an organism.
4. _____ is a trait that is expressed in the phenotype of an organism.
5. _____ is a trait that is expressed in the phenotype of an organism.
6. _____ is a trait that is expressed in the phenotype of an organism.
7. _____ is a trait that is expressed in the phenotype of an organism.
8. _____ is a trait that is expressed in the phenotype of an organism.

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

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

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

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

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

Seed color	Genotype	Phenotype
_____	YY	_____
_____	yy	_____
_____	Yy	_____

Q11. The ratio of offspring is calculated by a Punnett square. Fill in the table.

Parent 1	Parent 2	Offspring
_____	_____	_____
_____	_____	_____
_____	_____	_____

Q12. The probability of an offspring is _____.

The Cell Cycle and Mitosis - What Happens?

Stage	Prophase	Metaphase	Anaphase	Telophase
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	_____	_____	_____	_____



Question	Answer
1. What is the cell cycle?	_____
2. What are the stages of mitosis?	_____
3. What happens in Prophase?	_____
4. What happens in Metaphase?	_____
5. What happens in Anaphase?	_____
6. What happens in Telophase?	_____
7. What is cytokinesis?	_____
8. What is the difference between mitosis and meiosis?	_____
9. What is the purpose of mitosis?	_____
10. What is the purpose of meiosis?	_____
11. What is the difference between a somatic cell and a gamete?	_____
12. What is the difference between a haploid cell and a diploid cell?	_____
13. What is the difference between a prokaryotic cell and a eukaryotic cell?	_____
14. What is the difference between a unicellular organism and a multicellular organism?	_____
15. What is the difference between a prokaryotic cell and a eukaryotic cell?	_____
16. What is the difference between a unicellular organism and a multicellular organism?	_____
17. What is the difference between a prokaryotic cell and a eukaryotic cell?	_____
18. What is the difference between a unicellular organism and a multicellular organism?	_____
19. What is the difference between a prokaryotic cell and a eukaryotic cell?	_____
20. What is the difference between a unicellular organism and a multicellular organism?	_____

Genetics Basics Worksheet 200answers

Anthony S. Fauci



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