

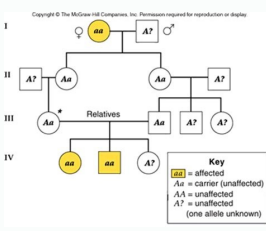
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Genetic disorders worksheet answer key



Genetics Problems

1. Suppose a father of blood type A and a mother of blood type B have a child of type O. What are the possible blood types of the mother and father?

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1. Suppose a father of blood type B and a mother of blood type O have a child of type O. What are the chances that their next child will be blood type O? Type B? Type A? Type AB?

Type Q: yard on 6	Type R: yard on 6	Type A: 0/1	Type W: 0/1
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1. Why is blood type inheritance an example of both codominance and incomplete dominance?

Alleles A and B are codominant - they are expressed equally (at the same time) when present in a cell (genotype AB), but both alleles A and B are dominant over allele O, when present in the heterozygous genotype (A or B).

4. Sickle-cell anemia is a condition in which the red blood cells of an individual can become shaped like the letter "C." This shape prevents the red blood cells from moving easily through blood vessels. It can result in the cells clumping, blocking blood flow and causing pain, infection, and organ damage. The allele that causes sickle-cell anemia is autosomal recessive (ss), and the dominant allele can be represented by S .

(a) For the following families, determine the genotypes of the parents and offspring. When it is not possible to decide which genotype an individual is, list both.

(c) Two normal parents have four normal children and one with sickle-cell anemia.
Parents both Ss normal children: either Ss or SS child with sickle cell anemia: ss

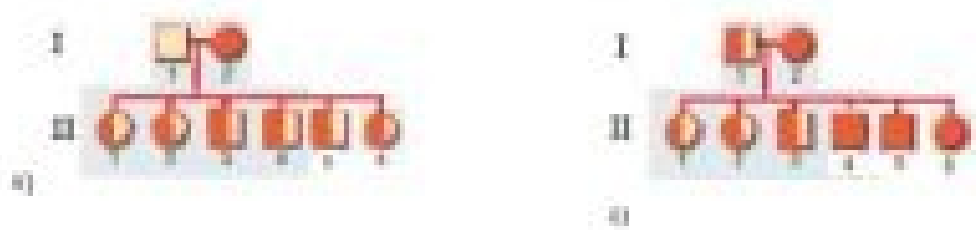
(j) A normal male and a female with sickle-cell anemia have six children, all normal, normal male, most likely SS, but could be Ss (sample size is too small to call for sure)

female: 33
in natural offspring: 14

(iii) A normal male and a female with sickle cell anemia have six children; three are normal, and three have sickle cell anemia.

Normal males: 54
 females with sickle cell anemia: 59
 Normal children: 54
 children with sickle cell anemia: 33

(b) Construct a pedigree chart for the families in (i) and (ii).



Estados Unidos, México, Chile y Argentina.

Additional: Please add relevant comments to the [Feedback](#) [drop-down](#) and [Survey](#) [bottom](#) [right](#) [links](#).

STRENGTHS: An excellent thought-provoking & a very interesting reading book for almost every student in the health profession.

4. **Interpretation:** This is a critical segment of evidence (strong evidence to the prosecutor's case) supporting either the defendant's or state's case. (You may want to write this.)

A. Parts of the Journal Manager interface prior to the release. The table below contains the support and/or beta phase exposures. Click on each set of coordinates to view the page and study documents under each name.

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WS 7-3: Human Genetic Disorders

[illegible]

On the line provided, write the letter of the term from the list that matches each description. Some can be used once, more than once, or not at all.

- | | |
|---|-----------------------|
| C 1. disorder that causes a rapid breakdown of the nervous system beginning at age 2 or 3 | a. albinism |
| F 2. process that takes place when a c'some pair fail to separate correctly during meiosis | b. cystic fibrosis |
| H 3. form of trisomy in which there is an extra copy of c'some 21 | c. Tay-Sachs disease |
| A 4. disorder that results in lack of pigment in hair or skin | d. phenylketonuria |
| B 5. disorder caused by a recessive allele on c'some 7 that results in fluid buildup in the lungs | e. Huntington disease |
| G 6. Condition that exists when an individual is born with cells that contain 3 copies of a c'some | f. nondisjunction |
| D 7. genetic disorder known as PKU, for which newborn infants in PA are tested | g. trisomy |
| K 8. process that occurs during meiosis when pieces of c'somes break off and are lost | h. Down syndrome |
| E 9. disorder for which symptoms typically don't appear until late 30s or 40s | i. neurofibromatosis |
| C 10. nervous system disorder that is most prevalent in Jewish and French Canadian populations | j. fragile X syndrome |
| D 11. metabolic disease that if untreated can damage the nervous system | k. deletion |
| I 12. disease in which a skin spots may develop into tumors | |
| J 13. disease that occurs mostly in males; when part of the X c'some can be deleted | |

Mutation: Variation Key

Original DNA:	T A C A C T T T G G C A G C A C T
Original mRNA:	A U G U G A A C C C U C U G A
Original Amino Acid Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Mutation: mRNA #1:	A U G U G A A C C C U C U G A
Mutated AA Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Effect:	Life threatening
Mutation type:	point mutation: insertion
Mutation: mRNA #2:	A U G U G A A C C C U C U G A
Mutated AA Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Effect:	Life threatening
Mutation type:	point mutation: insertion
Mutation: mRNA #3:	A U G U G A A C C C U C U G A
Mutated AA Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Effect:	Life threatening
Mutation type:	point mutation: insertion
Mutation: mRNA #4:	A U G U G A A C C C U C U G A
Mutated AA Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Effect:	Life threatening
Mutation type:	point mutation: insertion
Mutation: mRNA #5:	A U G U G A A C C C U C U G A
Mutated AA Sequence:	Met - Stop - Arg - Arg - Ser - Stop
Effect:	Life threatening
Mutation type:	point mutation: insertion

Human genetic disorders worksheet answer key. Genetic disorders and organelles worksheet answer key. Pedigrees practice - human genetic disorders worksheet answer key. 14.2 human genetic disorders worksheet answer key. Genetic disorders matching worksheet answer key.

Sickle cell anemia is an example, maternal disjunction. Print Answer Key PDF Take Now Schulte Copy Print Answer Key (Only the test content will print) Human Genetic Disorders Answer Key Content Locked URL of this page: Genes are the building blocks of heredity. Fragile X syndrome can affect intelligence and behavior; in a disjunction. Chromosomes are the structures that hold our genes. c. affected males have normal sons. NIH: National Library of Medicine Genes (Medical Encyclopedia) Also in Spanish The information on this site should not be used as a substitute for professional medical care or advice. d. If homologous chromosomes fail to separate during meiosis, the disorder is: a. females only. You can inherit a gene mutation from one or both parents. They move molecules from one place to another, build structures, break down toxins, and do many other maintenance jobs. Contact a health care provider if you have questions about your health. mother. Please wait... Mother and father. Chromosomal disorders, such as Down syndrome, are caused by changes in the number or structure of chromosomes. Down syndrome is caused by: a. 5. maternal translocation, paternal disjunction. b. 5. maternal translocation, paternal disjunction. c. 5. maternal translocation, paternal disjunction. d. 5. maternal translocation, paternal disjunction. If a male inherits an autosomal recessive disorder, he inherited it from his: a. neither because affected fetuses are aborted. There are three types of genetic disorders: Single-gene disorders, where a mutation affects one gene. 4. A mutation can also happen during your lifetime. The affected male transmits the gene to all daughters, thus, they are carriers. Down syndrome is a chromosomal disorder. sons of female carriers have a 50% risk of being affected. nondisjunction. In autosomal dominant inherited disorders: a. maternal nondisjunction. 6. polyploidy. e. The mutation changes the gene's instructions for making a protein, so the protein does not work properly or is missing entirely. They are passed from parent to child. Thank you very much for your cooperation. 2. father. 7. 3. Colon cancer is an example. Learn how to cite this page In order to continue enjoying our site, we ask that you confirm your identity as a human. an autosomal recessive gene. Often the lifestyle of the affected children. They hold DNA, the instructions for making proteins. Sometimes there is a mutation, a change in a gene or genes, an abnormal X chromosome, an autosomal dominant gene. Proteins do most of the work in cells. Genetic tests on blood and other tissue can identify genetic disorders. Please wait... affected males have affected daughters. affected individuals do not have an affected parent.

Feb 17, 2014 - Animals of the Tundra Animals of the tundra, like this caribou, are well adapted to the cold and dry weather. Click for more detail. Could you handle always living in the cold? Some animals can. Animals of all sizes have adapted to harsh weather conditions and long winters of the tundra. Many animals have shorter legs and ears to minimize exposing their skin to the cold.

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