# *Children 14th edition Santrock Test Bank*

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*Children, 14e* **(Santrock)**
**Chapter 2 Biological Beginnings**

1) The evolutionary process that favors individuals of a species that are best adapted to survive and reproduce is known as
A) gene-gene interaction.
B) gene mutation.
C) natural selection.
D) genetic imprinting.

Answer: C
Difficulty: 1 Easy
Topic: Natural Selection
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

2) Which of the following statements is TRUE of Darwin's views on evolution?
A) Most organisms reproduce at rates that cause an insignificant increase in their population.
B) The constant struggle for food, water, and resources among members of a species encourages supportive behaviors among them.
C) Behavior that promotes an organism's survival in the natural habitat differentiates survivors and nonsurvivors.
D) Adaptive behaviors are purely psychological.

Answer: C
Difficulty: 1 Easy
Topic: Adaptive Behavior
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

3) The theory of evolution by natural selection was first introduced by
A) Charles Darwin.
B) Stephen Jay Gould.
C) Albert Bandura.
D) Sandra Scarr.

Answer: A
Difficulty: 1 Easy
Topic: Evolutionary Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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4) In the context of natural selection, "fit" refers to behaviors that increase
A) genetic imprinting.
B) the psychological fitness of a species.
C) gene-environment interaction.
D) the reproductive success of a species.

Answer: D
Difficulty: 1 Easy
Topic: Evolutionary Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

5) Evolutionary psychology, a relatively new approach to psychology, has been especially influenced by
A) David Buss.
B) Sigmund Freud.
C) Albert Bandura.
D) Martin Seligman.

Answer: A
Difficulty: 1 Easy
Topic: Evolutionary Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

6) Evolutionary psychology is a relatively new approach to psychology that emphasizes the
A) biological changes that occur in an individual throughout the lifespan.
B) role of adaptation, reproduction, and survival of the fittest in shaping behavior.
C) unilateral manner in which genes determine our behavior and abilities.
D) geographical setting of the person in explaining his or her behavior and abilities.

Answer: B
Difficulty: 2 Medium
Topic: Evolutionary Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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7) Which of the following is TRUE with regard to the views of David Buss on evolution?
A) The influence of evolution is restricted to the development of our unique physical features.
B) The influence of evolution is negligible, as the environment in which a person grows is the sole determinant of his or her personality.
C) The influence of evolution on our reproductive success is not sufficient to explain survival.
D) The influence of evolution on our decision-making abilities, levels of aggression, fears, and mating patterns is significant.

Answer: D
Difficulty: 2 Medium
Topic: Evolutionary Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

8) Which of the following is an idea generated and supported by evolutionary psychology?
A) Gender roles are socially constructed, as opposed to being a function of evolution.
B) The mind is like a general-purpose device that can be applied equally to a vast array of problems, because evolved psychological mechanisms are not domain-specific.
C) All evolved mechanisms are adaptive in contemporary society.
D) An extended childhood period evolved in humans because they require time to develop a large brain and learn the complexity of human societies.

Answer: D
Difficulty: 2 Medium
Topic: Evolutionary Developmental Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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9) Which of the following is TRUE with regard to the evolutionary psychology perspective?
A) The evolutionary psychology perspective is one of the oldest applied branches of psychology.
B) The evolutionary psychology perspective represents a bidirectional view, in which environmental and biological conditions influence each other.
C) The evolutionary psychology perspective has been proven through successful empirical study and research.
D) The evolutionary psychology perspective is best evaluated through the study of specific genes and their links to traits and behaviors.

Answer: D
Difficulty: 2 Medium
Topic: Evolutionary Developmental Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

10) The threadlike structures that contain DNA are called
A) nerves.
B) cells.
C) dendrites.
D) chromosomes.

Answer: D
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

11) Which of the following is TRUE with regard to genes?
A) Each gene contains multiple chromosomes that are located on it.
B) Genes are located variably in humans; they cannot be found at a fixed place on a chromosome.
C) Genes are contained in complex molecules with a double helix shape called DNA.
D) Genes work individually to assemble proteins.

Answer: C
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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12) _____ are defined as units of hereditary information.
A) Nerves
B) Cells
C) Genes
D) Engrams

Answer: C
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

13) Which of the following is the smallest entity?
A) cell
B) gene
C) gamete
D) chromosome

Answer: B
Difficulty: 2 Medium
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

14) The findings of the Human Genome Project revealed that
A) genes possess no fixed locations in humans.
B) humans have far fewer genes than estimated earlier.
C) each gene programs just one protein.
D) humans appear to have far more genes than they have proteins.

Answer: B
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
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15) Which of the following statements is TRUE with regard to genes and proteins?
A) Genes act independently to translate the genetic code they carry into an individual's phenotype, or physical features that are observable.
B) Each gene is translated, in an automatic fashion, into one and only one protein.
C) The translation of genes into proteins represents a collaborative process between genes and other factors inside and outside the body.
D) The Human Genome Project established the fact that humans have as many as 100,000 or more genes.

Answer: C
Difficulty: 2 Medium
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

16) The genome-wide association method is used to
A) identify genetic variations linked to a particular disease.
B) collect data from multiple genetic studies and analyze that data.
C) identify the influence of environmental factors on emotional development.
D) rule out the influence of genetics as a cause of diseases.

Answer: A
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

17) Since completion of the Human Genome Project, childhood obesity and cardiovascular disease have been the focus of studies using
A) the genome-wide association method.
B) linkage analysis.
C) next-generation sequencing.
D) the visual-fixation method.

Answer: A
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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18) Discovering the location of a gene (or genes) in relation to a marker gene (whose position is already known) is the goal of
A) the genome-wide association method.
B) linkage analysis.
C) next-generation sequencing.
D) collective sampling.

Answer: B
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

19) Since the completion of the Human Genome Project, attention deficit hyperactivity disorder and autism have been the focus of studies using
A) the genome-wide association method.
B) linkage analysis.
C) next-generation sequencing.
D) dichotic listening techniques.

Answer: B
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

20) The vast increase in genetic data generated at a much reduced cost and in a shorter period of time is referred to as
A) the genome-wide association method.
B) linkage analysis.
C) next-generation sequencing.
D) rapid data collection.

Answer: C
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
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21) Which of the following was NOT one of the factors identified by researchers as external influences on the excitation or inhibition of genetic expression?
A) stress
B) radiation
C) temperature
D) intelligence

Answer: D
Difficulty: 1 Easy
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

22) _____ is defined as the process by which the cell's nucleus, including the chromosomes, duplicates itself and the cell divides.
A) Accommodation
B) Mitosis
C) Assimilation
D) Fertilization

Answer: B
Difficulty: 1 Easy
Topic: Mitosis
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

23) _____ is a form of cell division that occurs to form gametes.
A) Fertilization
B) Meiosis
C) Gene imprinting
D) Mitosis

Answer: B
Difficulty: 1 Easy
Topic: Mitosis
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
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24) A single cell, known as a(n) _____, is formed during the process of fertilization.
A) ovum
B) embryo
C) gamete
D) zygote

Answer: D
Difficulty: 1 Easy
Topic: Fertilization
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

25) One difference between mitosis and meiosis is that
A) meiosis takes place within body cells, while mitosis takes place within gametes.
B) mitosis results in the formation of two cells, while meiosis produces four cells.
C) in mitosis the cells divide twice, while in meiosis only one division occurs.
D) mitosis results in 23 unpaired chromosomes, while meiosis results in 23 paired chromosomes.

Answer: B
Difficulty: 2 Medium
Topic: Meiosis
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

26) Which of the following is TRUE with regard to sources of variability?
A) The chromosomes in the zygote are not exact copies of those in the mother's ovaries and the father's testes.
B) Fraternal twins develop from a single zygote that splits into two genetically identical replicas.
C) For each genotype, only a single corresponding phenotype can be expressed.
D) Identical twins develop from separate eggs and separate sperm.

Answer: A
Difficulty: 2 Medium
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
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27) A _____ gene is a permanently altered segment of DNA that can give rise to genetic variability.
A) recessive
B) dependent
C) mutated
D) dominant

Answer: C
Difficulty: 1 Easy
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

28) Which of the following is TRUE with regard to one's genotype?
A) It is apparent in one's physical make-up.
B) It is the sum of a person's genetic material.
C) It can be observed through one's intelligence and personality.
D) Each genotype translates into only one phenotypic expression.

Answer: B
Difficulty: 1 Easy
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

29) Which of the following can be deciphered by observing an individual?
A) genetic material
B) phenotype
C) genetic code
D) genetic expression

Answer: B
Difficulty: 2 Medium
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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30) Caroline is a beautiful baby. The observable characteristics of Caroline's hair and eyes are examples of her
A) genetic coding.
B) genotype.
C) gene-environment interaction.
D) phenotype.

Answer: D
Difficulty: 3 Hard
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

31) Which of the following is TRUE with regard to the dominant-recessive genes principle?
A) A single recessive gene has the potential to silence the other gene of the pair.
B) A recessive gene exerts its influence only if the two genes of a pair are both recessive.
C) Blond hair, nearsightedness, and freckles are dominant traits.
D) Brown hair, farsightedness, and dimples are examples of recessive traits.

Answer: B
Difficulty: 1 Easy
Topic: Dominant-Recessive Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

32) Michael carries two genes for brown hair. Lisa carries a dominant gene for brown hair and a recessive gene for blonde hair. Given this, we know that their child will have a _____ percent chance of having brown hair.
A) 25
B) 50
C) 75
D) 100

Answer: D
Difficulty: 3 Hard
Topic: Dominant-Recessive Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology


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33) In order for your children to have freckles, both you and your partner must carry the gene for freckles, because having freckles is a _____ trait.
A) polygenic
B) phenotypic
C) recessive
D) dominant

Answer: C
Difficulty: 3 Hard
Topic: Dominant-Recessive Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

34) Both Peggy and Bob are farsighted. If their child is nearsighted, then it follows that
A) both Peggy and Bob lack a gene for farsightedness.
B) only Peggy has a recessive gene for farsightedness.
C) only Bob lacks a gene for nearsightedness.
D) both Peggy and Bob have a recessive gene for nearsightedness.

Answer: D
Difficulty: 3 Hard
Topic: Dominant-Recessive Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

35) Based on your text, which of the following is/are the essential ingredient(s) required to translate one's genotype into one's phenotype?
A) proteins
B) RNA
C) amino acids
D) all of these

Answer: D
Difficulty: 1 Easy
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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36) According to your text, _____ are assembled and then become capable of producing phenotypic traits.
A) proteins
B) vitamins
C) bones
D) calories

Answer: A
Difficulty: 2 Medium
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

37) Studies that focus on the interdependence of two or more genes in influencing characteristics, behavior, diseases, and development are concerned with gene-gene
A) interaction.
B) correlation.
C) confusion.
D) disruption.

Answer: A
Difficulty: 1 Easy
Topic: Polygenic Inheritance
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

38) Recent studies examining gene-gene interaction have documented gene-gene interaction in all of the following EXCEPT
A) autism.
B) asthma.
C) immune system functioning.
D) cancer.

Answer: A
Difficulty: 1 Easy
Topic: Polygenic Inheritance
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
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APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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39) Which of the following is caused by faulty genetic imprinting?
A) Beckwith-Wiedemann syndrome
B) Klinefelter syndrome
C) Turner syndrome
D) Down syndrome

Answer: A
Difficulty: 1 Easy
Topic: Genetic Imprinting
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

40) Height is a simple characteristic that is determined by
A) a single gene.
B) the interaction of many genes and environmental factors.
C) the manifestation of an altered X-linked gene.
D) the action of a specific pair of genes.

Answer: B
Difficulty: 1 Easy
Topic: Polygenic Inheritance
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

41) Which of the following genetic disorders is caused by the presence of an extra copy of chromosome 21?
A) Down syndrome
B) Turner syndrome
C) sickle-cell anemia
D) phenylketonuria

Answer: A
Difficulty: 1 Easy
Topic: Down syndrome
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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42) Jerry was born with a round face, flattened skull, short limbs, and retardation of motor and mental abilities. The doctors told Jerry's parents that this is because he has an extra copy of chromosome 21. Which of the following chromosomal abnormalities does Jerry have?
A) phenylketonuria
B) Turner syndrome
C) sickle-cell anemia
D) Down syndrome

Answer: D
Difficulty: 3 Hard
Topic: Down syndrome
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

43) Which of the following is TRUE with regard to Down syndrome?
A) Down syndrome afflicts only males.
B) No remedial measures improve the quality of life and adaptive capacity of children with Down syndrome.
C) The risk of having a child with Down syndrome increases with very low or high maternal age.
D) Down syndrome is a sex-linked chromosomal abnormality.

Answer: C
Difficulty: 2 Medium
Topic: Down syndrome
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

44) Which of the following is a characteristic feature of Klinefelter syndrome?
A) a protruding tongue
B) a webbed neck
C) undeveloped testes
D) an extra fold of skin over the eyelids

Answer: C
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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45) Which of the following genetic disorders affects only males?
A) phenylketonuria
B) sickle-cell anemia
C) Klinefelter syndrome
D) Down syndrome

Answer: C
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

46) Which of the following genetic disorders can be classified as a sex-linked chromosomal abnormality?
A) phenylketonuria
B) sickle-cell anemia
C) Klinefelter syndrome
D) Down syndrome

Answer: C
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

47) Which of the following genetic disorders are caused by the presence of an extra chromosome?
A) Down syndrome and Turner syndrome
B) Turner syndrome and sickle-cell anemia
C) Klinefelter syndrome and Down syndrome
D) phenylketonuria and XYY syndrome

Answer: C
Difficulty: 2 Medium
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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48) Which of the following is TRUE with regard to fragile X syndrome?
A) The physical appearance of children with fragile X syndrome is markedly altered.
B) Mental abilities are relatively normal in individuals with fragile X syndrome.
C) This disorder occurs more frequently in males than in females.
D) This disorder is caused by the missing X chromosome in humans.

Answer: C
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

49) Which of the following genetic disorders affects only females?
A) Turner syndrome
B) sickle-cell anemia
C) Klinefelter syndrome
D) Down syndrome

Answer: A
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

50) Which of the following genetic disorders is characterized by the X chromosome being missing or incomplete in females?
A) fragile X syndrome
B) Turner syndrome
C) Klinefelter syndrome
D) Down syndrome

Answer: B
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
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APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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51) Nancy has recently undergone a surgery to correct her webbed neck. This is one of the many difficulties she faces as a result of being born with a missing X chromosome. She is also very short and overweight. Doctors have informed her parents that hormone therapy is an option to treat her condition, though reproductive sterility is a big possibility. Nancy's school performance is fairly average; she encounters problems with mathematics but has good verbal skills. Which of the following chromosomal disorders does Nancy have?
A) fragile X syndrome
B) Klinefelter syndrome
C) Turner syndrome
D) Down syndrome

Answer: C
Difficulty: 3 Hard
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

52) The XYY syndrome is characterized by the
A) male having an extra Y chromosome.
B) female having an extra Y chromosome.
C) male having an extra X chromosome.
D) female having a missing X chromosome.

Answer: A
Difficulty: 1 Easy
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

53) Which of the following genetic disorders is characterized by the inability of individuals to properly metabolize a particular amino acid?
A) phenylketonuria
B) sickle-cell anemia
C) Turner syndrome
D) fragile X syndrome

Answer: A
Difficulty: 1 Easy
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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54) When Wendy was a baby, she was diagnosed with a gene-linked abnormality that left her unable to metabolize an important amino acid. Because her condition was diagnosed early, the doctors recommended that her parents put her on a diet that prevents an excess accumulation of the concerning amino acid in her body. This diet has helped her deal with the disorder successfully without experiencing any of the major disturbances of development this disorder is associated with. Wendy is likely suffering from
A) phenylketonuria.
B) hemophilia.
C) Turner syndrome.
D) fragile X syndrome.

Answer: A
Difficulty: 3 Hard
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

55) _____ occurs most commonly in African Americans.
A) Down syndrome
B) Turner syndrome
C) Sickle-cell anemia
D) Phenylketonuria

Answer: C
Difficulty: 1 Easy
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

56) Which of the following is a consequence of sickle-cell anemia?
A) inability to metabolize an amino acid called phenylalanine
B) limited oxygen supply to the body's cells
C) delayed blood clotting, causing internal and external bleeding
D) limited production of insulin

Answer: B
Difficulty: 1 Easy
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology


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57) At age 6, Joe underwent a minor dental procedure that was followed by prolonged bleeding. When the bleeding could not be controlled by any common means, Joe was hospitalized and, later, diagnosed with a condition that can make simple injuries, bruises, or cuts extremely threatening because of delayed blood clotting. His parents were informed that if the problem continued or worsened, Joe would require frequent blood transfusions and medical care. Joe is suffering from
A) phenylketonuria.
B) hemophilia.
C) spina bifida.
D) diabetes.

Answer: B
Difficulty: 3 Hard
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

58) _____ is a gene-linked abnormality that is caused by a glandular dysfunction that interferes with mucus production.
A) Sickle-cell anemia
B) Tay-Sachs disease
C) Diabetes
D) Cystic fibrosis

Answer: D
Difficulty: 1 Easy
Topic: Gene-Linked Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

59) Which of the following is a neural tube disorder that can be treated with corrective surgery at birth?
A) Huntington's disease
B) Tay-Sachs disease
C) spina bifida
D) diabetes

Answer: C
Difficulty: 1 Easy
Topic: Gene-Linked Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Remember
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APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

60) Ultrasound sonography uses _____ to conduct prenatal diagnosis.
A) a strong magnetic field
B) strong ultraviolet waves
C) high-frequency infrared waves
D) high-frequency sound waves

Answer: D
Difficulty: 1 Easy
Topic: Ultrasound Sonography
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

61) The first fetal screening procedure that Holly Brook underwent revealed potential abnormalities in her baby. Subsequently, she underwent another procedure in which a powerful magnetic field and radio images were used to generate detailed images of the baby's organs and structure. This prenatal diagnostic test, which showed more clearly that her baby has certain abnormalities in the central nervous system, is called
A) amniocentesis.
B) fetal MRI.
C) noninvasive prenatal diagnosis.
D) ultrasound sonography.

Answer: B
Difficulty: 3 Hard
Topic: Fetal MRI
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

62) Which of the following prenatal diagnostic tests uses a sample of the placenta to detect genetic and chromosomal abnormalities in the fetus?
A) amniocentesis
B) chorionic villus sampling
C) noninvasive prenatal diagnosis
D) ultrasound sonography

Answer: B
Difficulty: 1 Easy
Topic: Chorionic Villus Sampling
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation


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APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

63) Which of the following prenatal diagnostic tests is used during amniocentesis to locate the precise point for drawing a sample?
A) maternal blood screening
B) noninvasive prenatal diagnosis
C) chorionic villus sampling
D) ultrasound sonography

Answer: D
Difficulty: 1 Easy
Topic: Amniocentesis
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

64) In the 17th week of her pregnancy, Penny Wills was asked to take the triple screen test, as she had a family history of birth defects. Her doctor assured her that the test would take very little time and posed no risks to her baby. Which of the following prenatal diagnostic tests has the doctor asked her to undergo?
A) maternal blood screening
B) noninvasive prenatal diagnosis
C) chorionic villus sampling
D) ultrasound sonography

Answer: A
Difficulty: 3 Hard
Topic: Maternal Blood Screening
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

65) Which of the following types of fetal sex determination is/are characterized by the by assessment of cell-free DNA in maternal plasma?
A) fetal MRI
B) ultrasound sonography
C) various noninvasive techniques
D) amniocentesis

Answer: C
Difficulty: 1 Easy
Topic: Noninvasive Prenatal Diagnosis (NIPD)
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
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APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

66) In the United States, _____ is by far the most commonly used assisted reproduction technique.
A) surrogate mothering
B) gamete intrafallopian transfer
C) artificial insemination
D) in vitro fertilization

Answer: D
Difficulty: 1 Easy
Topic: Infertility and Reproductive Technology
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

67) Norah and Bob are elated, as they have just brought their twins home. After trying to have a baby of their own for eight years, they opted for fertility treatment a year ago. Their gametes were harvested and fertilized artificially; and the successfully fertilized eggs were placed back in Norah's uterus. The pregnancy was fairly uneventful after that, although Norah had to go for frequent medical checks and take many precautionary measures. Norah and Bob used the _____ technique of assisted reproduction.
A) artificial insemination
B) in vivo fertilization
C) in vitro fertilization
D) gamete intrafallopian transfer

Answer: C
Difficulty: 3 Hard
Topic: Infertility and Reproductive Technology
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

68) One of the consequences of fertility treatments is a(n)
A) increase in the birth weight of babies.
B) decrease in genetic disorders.
C) increase in postterm pregnancies.
D) increase in multiple births.

Answer: D
Difficulty: 1 Easy
Topic: Infertility and Reproductive Technology
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember


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Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

69) Research on adoption has identified an increased risk for adoptees in all the following areas EXCEPT
A) aggression.
B) depression.
C) ADHD.
D) asthma.

Answer: D
Difficulty: 1 Easy
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

70) Jennifer was adopted at an early age, while Jasmine grew up in the foster care program. Based on research presented in your text, what is one likely outcome related to their respective cognitive development?
A) Jennifer's cognitive abilities will be below Jasmine's cognitive abilities.
B) Jennifer's cognitive abilities will be above Jasmine's cognitive abilities.
C) There will be little noticeable difference between the girls' cognitive abilities.
D) Research on adoption and foster care has not focused on cognitive development.

Answer: B
Difficulty: 3 Hard
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

71) Conclusions from recent studies on adoption suggest that a(n) _____ adoption leads to better adjustment for adolescents and emerging adults.
A) closed
B) open
C) classified
D) secret

Answer: B
Difficulty: 2 Medium
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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72) Jorge, an adoptee and an emerging adult, has never met his biological mother or father. Jorge's adoption would be considered a(n) _____ adoption.
A) closed
B) open
C) abnormal
D) cultural

Answer: A
Difficulty: 3 Hard
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

73) According to research, who seems to benefit from open adoptions?
A) child
B) biological parents
C) adoptive parents
D) all of these

Answer: D
Difficulty: 2 Medium
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

74) Which of the following is true of attachment issues in adoptees?
A) Substantial differences in attachment have been found between adopted and nonadopted infants with their parents.
B) Little difference in attachment has been found between adopted and nonadopted elementary-age children with their parents.
C) Little difference in attachment has been found between adopted and nonadopted infants with their parents.
D) Adoptive parents of infants have shown overall better attachments and behaviors than the biological parents of infants.

Answer: C
Difficulty: 2 Medium
Topic: Adoption
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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75) _____ is the field that seeks to discover the influence of heredity and environment on individual differences in human traits and development.
A) Eugenics
B) Behavior genetics
C) Genomics
D) Genetic engineering

Answer: B
Difficulty: 1 Easy
Topic: Behavior Genetics
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.1: Describe key concepts, principles, and overarching themes in psychology

76) One of the issues that complicates the interpretation of twin studies is that
A) fraternal twins are usually perceived as a "set" and play together more often than identical twins do.
B) identical twins represent a more active type of genotype-environment correlation.
C) the environments of identical twins are more similar than those of fraternal twins.
D) fraternal twins are rarely studied in comparison to identical twins.

Answer: C
Difficulty: 2 Medium
Topic: Behavior Genetics
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

77) Which of the following statements concerning adoption studies is correct?
A) Adoption studies involve studying the behavioral similarity of identical twins raised together.
B) Adoption studies compare children's traits with their adoptive and biological parents' traits.
C) Adoption studies cannot be conducted on single children or siblings who are neither identical nor fraternal twins.
D) Adoption studies clearly show that environment is more important than heredity.

Answer: B
Difficulty: 2 Medium
Topic: Behavior Genetics
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
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78) Passive genotype-environment correlations occur when
A) children grow up in a rearing environment provided by the biological parents.
B) children's characteristics elicit certain types of physical and social environments.
C) children seek out environments they find compatible and stimulating.
D) children follow their own inherited predispositions despite being adopted by different families.

Answer: A
Difficulty: 2 Medium
Topic: Passive Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

79) According to Dr. Lynn Perlman, identity formation or developing a sense of uniqueness is especially difficult for
A) males.
B) females.
C) twins.
D) only children.

Answer: C
Difficulty: 2 Medium
Topic: Behavior Genetics
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

80) Joan and Jane are identical twins in their teenage years. It is likely that the two girls
A) are very happy being perceived as "one" person.
B) are in the midst of trying to form unique personalities.
C) are still dressing in the same outfits.
D) share the same exact pattern of beliefs and values that they have since childhood.

Answer: B
Difficulty: 3 Hard
Topic: Behavior Genetics
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Apply
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APA Outcome: 1.3: Describe applications of psychology


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81) Evocative genotype-environment correlations occur when
A) biological parents provide a rearing environment for the child.
B) children's characteristics elicit certain types of physical and social environments.
C) children find a setting that is suited to their abilities.
D) children make active selections of environment in relation to their particular genotype.

Answer: B
Difficulty: 2 Medium
Topic: Evocative Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

82) Niche-picking genotype-environment correlations occur when
A) biological parents provide a rearing environment for the child.
B) children seek out environments that they find compatible and stimulating.
C) children behave in ways that elicit certain types of environment.
D) children behave in ways that reflect the inherited disposition of their biological parents.

Answer: B
Difficulty: 2 Medium
Topic: Active Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

83) Because Juno's parents are athletic, they tend to take her to all types of athletic events and activities such as mountain biking, roller blading, and skiing. As a result, Juno has many opportunities to practice her athletic skills. This is an example of a(n)
A) suppressive genotype-environment correlation.
B) active genotype-environment correlation.
C) passive genotype-environment correlation.
D) evocative genotype-environment correlation.

Answer: C
Difficulty: 3 Hard
Topic: Passive Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
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84) Rick is a toddler with an easy temperament and active nature. People are often seen stopping to talk to him in supermarkets and parks where his mother takes him in the evenings, because he smiles willingly at other children and adults. This aspect of Rick's behavior most likely reflects a(n)
A) active genotype-environment correlation.
B) suppressive genotype-environment correlation.
C) passive genotype-environment correlation.
D) evocative genotype-environment correlation.

Answer: D
Difficulty: 3 Hard
Topic: Evocative Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

85) Robert's parents are fairly social and enjoy an evening out with their friends. Robert's older sister, Martha, reflects their parents' social interests: She is often seen conducting church events, planning parties with her friends, and stopping to speak to friends and acquaintances warmly. Unlike them, Robert spends all his free time reading books and surfing the Internet to learn about a host of things that interest him. His need for learning most likely reflects a(n)
A) active genotype-environment correlation.
B) suppressive genotype-environment correlation.
C) passive genotype-environment correlation.
D) evocative genotype-environment correlation.

Answer: A
Difficulty: 3 Hard
Topic: Active Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology


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86) According to Sandra Scarr, which of the following play a more important role during the periods of infancy and early childhood?
A) suppressive genotype-environment correlations
B) active genotype-environment correlations
C) passive genotype-environment correlations
D) evocative genotype-environment correlations

Answer: C
Difficulty: 2 Medium
Topic: Passive Genotype-Environment Correlations
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

87) What condition defines infertility?
A) the inability to conceive a child after 12 months of regular intercourse without contraception
B) the inability to conceive a child after 6 months of regular intercourse without contraception
C) an abnormal or impaired menstrual cycle in females or low sperm count in males
D) the inability to conceive a child naturally even after hormonal drugs are employed

Answer: A
Difficulty: 1 Easy
Topic: Shared Environmental Influences
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

88) Which of the following was a finding of recent studies into the lives of children after adoption?
A) Only a minority of adopted children were classified, after a period of five years from time of adoption, as "well-adjusted."
B) The mother's secure attachment proved more important for adopted children's secure attachment than did the father's secure attachment.
C) Adopted children tend to externalize less than nonadopted children.
D) Long-term foster care proved just as beneficial to the long-term health and well-being as did early adoption.

Answer: B
Difficulty: 2 Medium
Topic: Shared Environmental Influences
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology


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89) To study the effects of heredity on behavior, a behavior geneticist would be mostly likely to turn to which of the following?
A) a genome-wide association method
B) a study of gene-linked abnormalities
C) a twin study
D) an epigenetic development study

Answer: C
Difficulty: 3 Hard
Topic: Shared Environmental Influences
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

90) Horace and Jim are fraternal twins. Their next-door neighbors, Ali and Kalil, with whom they often play, are identical twins of the same age as Horace and Jim. When all four boys graduate from high school, and if all four are going to four separate colleges, which of the following is likely to be true?
A) Ali and Kalil will have more distinct personalities than Horace and Jim.
B) Separating from their care giver will be a more important developmental step for Ali and Kalil than Horace and Jim.
C) Horace and Jim will have a more painful experience separating than Ali and Kalil.
D) Kalil and Ali will have a more painful experience separating than Horace and Jim.

Answer: D
Difficulty: 3 Hard
Topic: Shared Environmental Influences
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
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APA Outcome: 1.3: Describe applications of psychology


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91) What has a national study shown to be significantly higher among infants conceived by assisted-reproduction technology?
A) chromosomal syndromes
B) genetic abnormalities
C) high birth weight
D) preterm birth

Answer: D
Difficulty: 2 Medium
Topic: Nonshared Environmental Influences
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

92) Though low, what is the primary risk associated with amniocentesis?
A) fetal psychological damage
B) fetal injury
C) subsequent maternal infertility
D) miscarriage

Answer: D
Difficulty: 2 Medium
Topic: Nonshared Environmental Influences
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

93) What is the primary risk (though small) with chorionic villus sampling (CVS)?
A) behavioral problems
B) brain damage
C) heart abnormality
D) limb deformity

Answer: D
Difficulty: 1 Easy
Topic: Nonshared Environmental Influences
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Remember
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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94) Tara's height is six feet, two inches. If this characteristic—her height—is polygenically determined, then it is determined
A) by the interaction of many different genes.
B) only by the interaction of recessive genes.
C) by a recessive gene, despite the presence of two dominant genes.
D) by the interaction of two genes.

Answer: A
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

95) Dora has recently started working on a research study that hypothesizes that people who have a defect in a specific gene may have a predisposition to depression. As a second hypothesis in the study, the researcher is studying the impact of a significant lack of social support in triggering the onset of depression in such people. If Dora's research successfully validates both hypotheses, which of the following conclusion may be drawn?
A) A defect in the gene Dora is studying is directly linked to depression.
B) A lack of social support always leads to clinically significant levels of depression.
C) The defective gene and lack of social support produce a heightened risk of depression.
D) The defective gene is recessive, and depression is a result of polygenic inheritance.

Answer: C
Difficulty: 3 Hard
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
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APA Outcome: 1.3: Describe applications of psychology


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96) Studies involving gene × environment interactions have identified a short version of a gene labeled 5-HTTLPR (a gene involving the neurotransmitter serotonin) that, when combined with a stressful environment, can elevate the risks of developing
A) depression.
B) intelligence.
C) cancer.
D) type 2 diabetes.

Answer: A
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

97) According to studies examining gene × environment interaction, individuals who possess the longer version of the gene 5-HTTLPR (a gene involving the neurotransmitter serotonin)
A) are more likely to develop depression.
B) are more likely to have difficult temperaments.
C) seem to show more resilience in the face of stressful environments.
D) are less likely to be evaluated positively by their peers.

Answer: C
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

98) According to your text, conclusions from studies examining gene × environment interaction
A) have been replicated by many researchers, each verifying the conclusions.
B) are nearly always correct, with the exception of studies that have focused on dopamine.
C) are now considered the most persuasive of all studies from the behavior genetics field.
D) have been difficult to replicate and verify.

Answer: D
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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99) Critics of studies examining gene × environment interaction have had difficulty
A) finding subjects to participate in research projects.
B) finding topics that adapt to the area of study.
C) replicating the results of previous studies.
D) finding the money to pay subjects.

Answer: C
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

100) Resilience, or the ability to overcome stressful environments, appears to be connected to the
A) longer version of the gene 5-HTTLPR (a gene involving the neurotransmitter serotonin).
B) shorter version of the gene 5-HTTLPR (a gene involving the neurotransmitter serotonin).
C) longer version of the gene Ap04.
D) shorter version of the gene Ap04.

Answer: A
Difficulty: 2 Medium
Topic: Gene x Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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101) What kind of success does natural selection particularly emphasize? Give a few examples of adaptive behavior.

Answer: Students' answers may vary.

Natural selection emphasizes reproductive success. Natural selection is the evolutionary process by which those individuals of a species that are best adapted are the ones that survive and reproduce.

Examples of adaptive behavior include these:

- An infant's attachment to its caregiver so that it can be close to the caregiver for food and protection from danger
- Pregnancy sickness that helps pregnant women avoid foods that contain high levels of toxins that might harm the fetus

Difficulty: 3 Hard
Topic: Natural Selection
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology

102) Describe any three ways in which evolutionary developmental psychologists believe that human development may have been affected by evolution over time.

Answer: Students' answers may vary.

A few ways in which evolutionary developmental psychologists believe that human development may have been affected by evolution over time are given below.

- An extended juvenile period evolved because humans need time to develop a large brain and learn the complexity of human social communities.
- Many evolved psychological mechanisms are domain specific. This means that the mechanisms apply only to a specific aspect of a person's makeup.
- Evolved mechanisms are not always adaptive in contemporary society. Some behaviors that were adaptive for our prehistoric ancestors may not serve us well today.

Difficulty: 2 Medium
Topic: Evolutionary Developmental Psychology
Learning Objective: Use scientific reasoning to interpret psychological phenomena.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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103) Mention a few salient features of the Human Genome Project.

Answer: Students' answers may vary.
The Human Genome Project has completed a preliminary map of the human genome—the complete set of developmental instructions for creating proteins that initiate the making of a human organism.
Scientists had thought that humans have 100,000 or more genes, but the Human Genome Project reported that humans have only about 30,000 genes. That number has been further revised downward to 20,500.
Scientists also believed that each gene corresponded to only one protein but the Human Genome Project's estimate of genes shows that humans have a lot more proteins than they have genes. This implies that each gene is not translated to just one protein. Rather, genes collaborate with each other and with nongenetic factors inside and outside the body to manifest their effect.
Difficulty: 2 Medium
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

104) Describe any two sources of variability that the human genetic process creates.

Answer: Students' answers may vary.
The chromosomes in the zygote are not exact copies of those in the mother's ovaries and the father's testes. During the formation of the sperm and egg in meiosis, the members of each pair of chromosomes are separated, but which chromosome in the pair goes to the gamete is a matter of chance. In addition, before the pairs separate, pieces of the two chromosomes in each pair are exchanged, creating a new combination of genes on each chromosome.
There is another source of variability that is unrelated to the formation of gametes. Chance, mistakes by the cellular machinery that duplicates DNA or assault by environmental agents like radiations can damage DNA. This results in a permanently altered segment of DNA, giving rise to a mutated gene.
Difficulty: 2 Medium
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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105) Describe the relationship between genotypes and phenotypes.

Answer: Students' answers may vary.
All of a person's genetic material makes up his or her genotype. However, not all the genetic material is apparent in our observed and measurable characteristics. A phenotype consists of observable characteristics. Phenotypes include physical characteristics (such as height, weight, and hair color) and psychological characteristics (such as personality and intelligence). For each genotype, a range of phenotypes can be expressed, providing another source of variability. An individual can inherit the genetic potential to grow very large, for example, but good nutrition, among other things, will be essential to achieving that potential.
Difficulty: 2 Medium
Topic: Sources of Variability
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

106) Describe any two genetic principles.

Answer: Students' answers may vary.

Following are two genetic principles:

Dominant-recessive genes principle: There are certain gene pairs (dominant-recessive pairs) where the observable effects are always due to one gene of the pair (the dominant gene) when both genes are present in an individual. For the recessive gene's effects to be visible, both genes of the pair in a person should be of the recessive kind.

Sex-linked genes: Genes that are located on the X or Y chromosomes (sex chromosomes) are known as sex-linked genes, and their inheritance is sex-linked (sex-linked inheritance). For instance, if a gene on the X chromosome gets mutated into a disease-causing form, then a male carrying that chromosome may develop the X-linked disease because males carry only one copy of the X chromosome. A female might have the disease (if she has the altered gene on both X chromosomes) or she might be a carrier (if she has the altered gene on only one X chromosome).

Difficulty: 2 Medium
Topic: Genes
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
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107) What is genetic imprinting? How is it achieved? Discuss its implications for development.

Answer: Students' answers may vary.
Genetic imprinting occurs when genes have differing effects depending on whether they are inherited from the mother or the father. A chemical process "silences" one member of the gene pair. For example, as a result of imprinting, only the maternally derived copy of a gene might be active, while the paternally derived copy of the same gene is silenced—or vice versa. Genetic imprinting has important implications for development, and faulty imprinting may lead to abnormal development and disorders such as the Beckwith-Wiedemann syndrome, a growth disorder, and Wilms tumor, a type of cancer.
Difficulty: 2 Medium
Topic: Genetic Imprinting
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

108) Choose any two chromosome or gene-linked abnormalities and discuss what causes the abnormality, symptoms, and how it may be managed if possible.

Answer: Students' answers may vary.
Down syndrome: Down syndrome, caused by an extra copy of chromosome 21, transmits a number of observable physical characteristics, such as a round face and flattened skull, and motor and intellectual disability. If the age of the mother during pregnancy is under 16 or over 34, there is increased risk of Down syndrome in the child.
Phenylketonuria: This is a disorder wherein the body cannot properly metabolize an amino acid. It is easily detected and can be treated by a controlled diet. If it goes untreated, it can result in mental retardation and hyperactivity.
Difficulty: 2 Medium
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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109) Describe two chromosomal abnormalities that affect only males.

Answer: Students' answers may vary.
Klinefelter syndrome is a genetic disorder in which males have an extra X chromosome, making them XXY instead of XY. Males with this disorder have undeveloped testes, and they usually have enlarged breasts and become tall.
The XYY syndrome is a chromosomal disorder in which the male has an extra Y chromosome. It was once believed that this syndrome caused a greater aptitude for violence, but research has disproven this idea.
Difficulty: 2 Medium
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

110) Describe any one chromosomal abnormality and gene-linked abnormality.

Answer: Students' answers may vary.
Down syndrome: An individual with Down syndrome has a round face, a flattened skull, an extra fold of skin over the eyelids, a protruding tongue, short limbs, and retardation of motor and mental abilities. The syndrome is caused by the presence of an extra copy of chromosome 21. African American children are rarely born with Down syndrome.
Sickle-cell anemia: It occurs most often in African Americans. It is a genetic disorder that impairs the body's red blood cells. In sickle-cell anemia, a recessive gene causes the red blood cells to become hook-shaped "sickles" that cannot carry oxygen properly and die quickly. As a result, the body's cells do not receive adequate oxygen, causing anemia and early death.
Difficulty: 2 Medium
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
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APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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111) Describe a chromosomal abnormality that affects only females.

Answer: Students' answers may vary.
Turner syndrome is a chromosomal disorder in females in which either an X chromosome is missing, making the person XO instead of XX, or part of one X chromosome is deleted. Females with Turner syndrome are short in stature and have a webbed neck. They might be infertile and have difficulty in mathematics, but their verbal ability often is quite good.
Difficulty: 2 Medium
Topic: Sex-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

112) Discuss the potential positives of a couple seeking genetic counseling.

Answer: Students' answers may vary.
Genetic counselors can meet with prospective parents who know of histories of genetic disorders in their families and know they may be carriers for the disorder. The counselor can both help them understand the risks and what to do in terms of care if the disorder were to appear in a new child.
Difficulty: 3 Hard
Topic: Gene-Linked Chromosomal Abnormalities
Learning Objective: Describe what genes are and how they influence human development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology


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113) Describe any two prenatal diagnostic procedures that can be used to diagnose structural abnormalities in the fetus.

Answer: Students' answers may vary.

Following are two of the less invasive types of prenatal tests:

Ultrasound sonography: Ultrasound sonography is a prenatal medical procedure in which high-frequency sound waves are directed into the pregnant woman's abdomen. The echo from the sounds is transformed into a visual representation of the fetus's inner structures. This technique can detect many structural abnormalities in the fetus, like microcephaly.

Fetal MRI: This procedure uses a powerful magnet and radio images to generate detailed images of the body's organs and structure. It provides more detailed images than ultrasound sonography. Among the fetal malformations that fetal MRI may be able to detect better than ultrasound sonography are certain abnormalities of the central nervous system, chest, gastrointestinal tract, genital/urinary system, and placenta.

Difficulty: 2 Medium
Topic: Prenatal Diagnostic Tests
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

114) Briefly describe any two prenatal diagnostic procedures that are "more invasive" than ultrasound sonography and fetal MRI.

Answer: Students' answers may vary.

Following are two of the more invasive types of prenatal tests:

Amniocentesis: It is performed between the 14th to 20th weeks of pregnancy. It involves the removal of a sample of amniotic fluid with a needle to determine any chromosomal or metabolic disorders. The earlier it is performed, the more useful it is in deciding how to handle a pregnancy.

Chorionic villus sampling: It is performed between 9.5 and 12.5 weeks of pregnancy. It involves the removal of a small sample of the placenta that provides information about the presence of birth defects.

Difficulty: 2 Medium
Topic: Prenatal Diagnostic Tests
Learning Objective: Identify some important reproductive challenges and choices.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains


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115) Describe the emerging view in psychology about heredity-environment interaction.

Answer: Students' answers may vary.
The emerging understanding of heredity-environment interaction is that both heredity and environment play complex roles in influencing development. Certain genes give people a propensity for behaving in a particular way, but the development of that behavior requires an environment. Environments themselves are complex, and their influences can range from what is known as "nurture," like parenting and schooling, and biological encounters like viruses.
Difficulty: 2 Medium
Topic: Noninvasive Prenatal Diagnosis (NIPD)
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Understand
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

116) Explain how Scarr's genotype correlations change in importance throughout life and also discuss a criticism of this analysis.

Answer: Students' answers may vary.
Because environment is almost wholly controlled by adults while a person is in infancy, passive genotype-environment correlations are more common in infancy than in older children or adolescents. Evocative and active genotype-environment correlations become more important as one moves out of infancy. One criticism of this analysis notes that it gives the preeminent role in development to heredity and that a better view would be to consider a bigger role for environment, including the role that past environmental influences have in shaping the correlation itself.
Difficulty: 3 Hard
Topic: Behavior Genetics
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
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APA Outcome: 1.3: Describe applications of psychology


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117) Describe the three ways in which heredity and environment may be correlated.

Answer: Behavior geneticist Sandra Scarr described three ways in which heredity and environment are correlated.

Passive genotype-environment correlations occur because biological parents, who are genetically related to the child, provide a rearing environment for the child.
Evocative genotype-environment correlations occur because a child's characteristics elicit certain types of environments.
Active (niche-picking) genotype-environment correlations occur when children seek out environments that they find compatible and stimulating.

Difficulty: 2 Medium
Topic: Behavior Genetics
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Remember
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

118) Ramona, an 8-year-old with autistic characteristics, exhibits many difficulties in the area of social communication. She is high-functioning academically and enjoys activities involving repetitive movements and math calculations. Her teachers were concerned that Ramona would have difficulty participating and completing activities in a regular classroom. Ramona would sob, cover her ears, and rock in her chair when there was too much visual and auditory stimuli or when she did not know an answer to a question. When the teacher asked her to complete a math facts worksheet, the entire class was amazed to see that Ramona completed the math problems within a minute. From that point forward, Ramona became the "math" leader of the class, which not only increased her self-confidence but increased her social interaction with peers as well. What is Ramona's niche in the following scenario?

Answer: Ramona's high math ability was her niche. Ramona's success demonstrates an active (niche-picking) genotype-environment correlation, which occurs when children seek out environments that they find compatible and stimulating.
Difficulty: 3 Hard
Topic: Heredity and Environment Interaction
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.3: Describe applications of psychology


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119) Broadly describe the separation process of twins and how that tends to differ from the separation of fraternal twins or non-twin siblings, as explained by Lynn Perlman.

Answer: Students' answers may vary.
Perlman explains that formation of a unique identity, moving from "we" to "I," is a critical task for identical twins and affects them more than non-twin siblings or even fraternal twins. For non-twins, separation from the primary caregiver is the primary task in childhood through emerging adulthood, while identical twins find the separation process more difficult, due to comparisons to their twin. Due to physical similarity, identical twins will have more difficulty with this than fraternal twins. The separation process accelerates in adolescence, often when one twin matures faster than the other. Twin separation in adulthood can be especially painful.
Difficulty: 3 Hard
Topic: Nonshared Environmental Experiences; Shared Environmental Experiences
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Apply
Accessibility: Keyboard Navigation
APA Outcome: 1.2: Develop a working knowledge of psychology's content domains

120) Describe the epigenetic view of development.

Answer: The epigenetic view states that development is the result of an ongoing, bidirectional interchange between heredity and the environment. Heredity and environment operate together—or collaborate—to produce various observable traits of a person.
Difficulty: 2 Medium
Topic: Epigenetic View
Learning Objective: Characterize some of the ways that heredity and environment interact to produce individual differences in development.
Bloom's: Remember
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