

Directed Reading B *continued*

- _____ **20.** In a coin toss, what is the probability of tossing tails?
a. 1/1
b. 1/2
c. 2/2
d. 2/1
- _____ **21.** In a coin toss, what calculation is used to find the probability that you will toss two heads in a row?
a. $1/1 \times 1/1 = 1$
b. $1/2 \times 1/2 = 1/4$
c. $2/2 \times 2/2 = 4/4$
d. $2/1 \times 2/1 = 4/1$
- _____ **22.** In a $Pp \times Pp$ cross, what is the probability that offspring will inherit two p alleles?
a. 1/4, or 25%
b. 1/2, or 50%
c. 3/4, or 75%
d. 1/1, or 100%
- 23.** Why were the traits Mendel examined in pea plants easy to predict?

MORE ABOUT TRAITS

- _____ **24.** Eye color and fur color in a white tiger are controlled by
a. one gene.
b. two genes.
c. many genes.
d. one allele.
- _____ **25.** Traits such as the color of skin, hair, and eyes result from
a. one gene acting alone.
b. one allele from each parent acting together.
c. several genes acting together.
d. one dominant allele.
- 26.** Besides genes, what else can have an influence on traits?

Directed Reading B *continued*

27. Give one example of an internal environmental condition and one example of an external environmental condition that can affect an organism's phenotype.

GENETIC VARIATION

28. How many genes do scientists estimate humans have?

29. The difference in the sets of alleles between individuals in a population is called _____.

30. What is one example of genetic variation found in a population of corn snakes?

31. What is an example of a trait inside your body that is affected by genes?

Skills Worksheet

Vocabulary and Section Summary B

Mendel and His Peas

VOCABULARY

After you finish reading the section, try this puzzle! Use the clues below to write the word or phrase in the appropriate spaces.

1. the passing of genetic traits from parents to offspring

2

2. a feature that has different forms in a population

5

7

3. a trait that reappears in the second generation after disappearing in the first generation

11

4. a relationship between two different numbers

10

5. the trait observed in the first generation when parents that have different traits are bred

4

1

6. when sperm from one plant fertilizes the eggs of the same plant

8

6

7. a plant that, when it self-pollinates, will have offspring with the same trait as the parent

9

3

Using the numbered letters above, fill in the spaces below to find a phrase related to heredity.

8. _____ , _____

1

2

3

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11

Vocabulary and Section Summary B

Traits and Inheritance

VOCABULARY

After you finish reading the section, try this puzzle! In the space provided, write the term described. Then, find the words in the word search puzzle below. Terms can be hidden in the puzzle vertically, horizontally, diagonally, or backward.

- _____ 1. the likelihood that a possible future event will occur in any given instance of the event
- _____ 2. one of the alternative forms of a gene that governs a characteristic
- _____ 3. one set of instructions for an inherited trait
- _____ 4. the entire genetic makeup of an organism
- _____ 5. an organism's appearance or other detectable characteristic

A	H	T	I	C	L	D	T	B	O	F	Y	A	I	E
E	G	N	H	A	R	Y	P	V	W	T	S	G	Y	S
U	E	A	L	P	H	E	N	O	T	Y	P	E	E	T
E	H	L	A	T	E	I	E	N	A	R	I	N	A	S
A	E	D	H	L	P	E	B	C	D	B	H	E	N	W
K	T	G	F	K	L	T	B	Y	P	O	D	P	R	E
F	B	I	B	H	G	E	N	O	T	Y	P	E	G	B
G	E	M	A	L	O	F	L	L	E	I	I	Y	L	P
I	A	N	Y	C	D	Z	G	E	O	B	F	D	E	R
D	T	O	V	O	T	E	I	V	H	A	C	B	W	O
E	P	Y	T	I	L	I	B	A	B	O	R	P	A	Y
I	A	P	H	D	U	C	M	B	L	A	Y	E	E	D
C	N	J	M	R	E	S	U	S	U	I	C	L	L	E