Ch	napter 2 – Basic Genetics
1.	A triploid organism would have copies of all genes.
	a. 0
	b. 1
	c. 2
	d. 3
2.	Homologous chromosomes contain the same genes for the same traits at the same
	loci.
	a. True
	b. False
3.	Which statement is false?
	a. Individuals who are heterozygous for a defective gene are carriers of the
	defective allele.
	b. Heterozygous individuals have the genetic disorder.
	c. Heterozygotes have two different alleles for the same trait.
	d. All of the above are false.
4.	A allele determines the phenotype even when only one copy is present.
	a. dominant
	b. recessive
	c. codominant
	d. homozygous
5.	Sister chromatids occur following
	a. gamete fusion
	b. cell division
	c. transcription
	d. replication
6.	Gametes are and somatic cells are
	a. diploid; haploid
	b. haploid; diploid
	c. haploid; haploid
	d. diploid; diploid
7.	In the following genetic cross, Pp x Pp, what percentage of the offspring will have
	a recessive phenotype?
	a. 0%
	b. 25%
	c. 50%
	d. 75%
8.	Sex-linked genes are found on
	a. the X chromosome only
	b. the Y chromosome only
	c. either the X or the Y chromosome
	d. the autosomes
9.	Sex-linked genes only affect male carriers.
	a. True
	b. False
10.	. Humans have chromosomes in the gametes.
	a. 2
	b. 12
	c. 24
	d. 48

Chapter 2 – Basic Genetics Answers
1.D 2.A 3.B 4.A 5.D 6.B 7.B 8.C 9.B 10.C