

NAME: _____

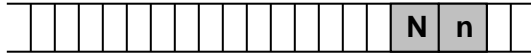
PERIOD: _____

DATE: _____

Genetics Basics Practice

Do these genetics problems. You can use your notes to help. For each problem, **circle the gene**, and fill in all the other information.

1. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____

What are the possible alleles? _____

Which is the dominant allele? _____

Which is the recessive allele? _____

What's the test subject's phenotype? _____ genotype? _____

Night-vision

N – good night-vision

n – night-blindness

TEST SUBJECT: Bruce – Nn

2. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____

What are the possible alleles? _____

Which is the dominant allele? _____

Which is the recessive allele? _____

What's the test subject's phenotype? _____ genotype? _____

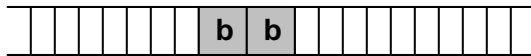
Hair Color

D – dark hair

e – blonde hair

TEST SUBJECT: John – DD

3. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____

What are the possible alleles? _____

Which is the dominant allele? _____

Which is the recessive allele? _____

What's the test subject's phenotype? _____ genotype? _____

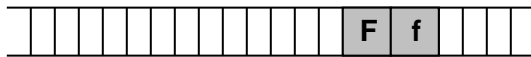
Eye Color

B – brown eyes

b – blue eyes

TEST SUBJECT: Diana – bb

4. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____

What are the possible alleles? _____

Which is the dominant allele? _____

Which is the recessive allele? _____

What's the test subject's phenotype? _____ genotype? _____

Foot Speed

F – fast runner

f – normal runner

TEST SUBJECT: Wally – Ff

5. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____

What are the possible alleles? _____

Which is the dominant allele? _____

Which is the recessive allele? _____

What's the test subject's phenotype? _____ genotype? _____

Shoulder Blade Size

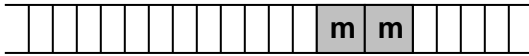
R – normal shoulder blades

r – huge shoulder blades

TEST SUBJECT: Shayera – rr



6. **CIRCLE THE GENE** in the DNA strip below:



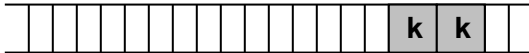
What's the trait? _____
 What are the possible alleles? _____
 Which is the dominant allele? _____
 Which is the recessive allele? _____
 What's the test subject's phenotype? _____ genotype? _____

Psychic Ability

M – no psychic ability
 m – psychic ability

TEST SUBJECT: Jonn – mm

7. **CIRCLE THE GENE** in the DNA strip below:



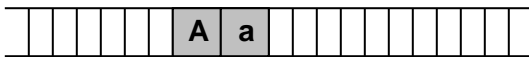
What's the trait? _____
 What are the possible alleles? _____
 Which is the dominant allele? _____
 Which is the recessive allele? _____
 What's the test subject's phenotype? _____ genotype? _____

Susceptible to Kryptonite

K – not susceptible to kryptonite
 k – susceptible to kryptonite

TEST SUBJECT: Clark – kk

8. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____
 What are the possible alleles? _____
 Which is the dominant allele? _____
 Which is the recessive allele? _____
 What's the test subject's phenotype? _____ genotype? _____

Amphibious

A – can breathe underwater
 a – cannot breathe underwater

TEST SUBJECT: Arthur – Aa

9. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____
 What are the possible alleles? _____
 Which is the dominant allele? _____
 Which is the recessive allele? _____
 What's the test subject's phenotype? _____ genotype? _____

Business savvy

L – wheels and deals with the best of them
 x – couldn't run a lemonade stand

TEST SUBJECT: Lex – Lx

10. **CIRCLE THE GENE** in the DNA strip below:



What's the trait? _____
 What are the possible alleles? _____
 Which is the dominant allele? _____
 Which is the recessive allele? _____
 What's the test subject's phenotype? _____ genotype? _____

Intelligence

D – normal intelligence
 h – below normal intelligence

TEST SUBJECT: Solomon – hh

