

**Note-taking
Worksheet****The Role of Genes in
Inheritance****Section 1 Continuing Life**

- A. Reproduction—transfers chemically coded hereditary information contained in _____, deoxyribonucleic acid
- B. The nucleus divides into two new nuclei, each with the same DNA, a process called _____.
- C. _____—reproduction in which a new organism is produced from a part of another organism by cell division.
1. One-celled organisms _____ in half to reproduce.
 2. In a process called _____, some organisms replace lost parts by growing new ones.
 3. Some animals reproduce by _____, which results in a new organism that grows out of the old one.
 4. _____—making copies of an organism; the copy is termed a clone.
- D. _____—a new organism is produced from the combined DNA of two different cells called **sex cells**.
- E. Sex cells form by _____—a double cell division process that leaves the four newly formed cells with half the number of chromosomes of the original cell
- E. When _____ occurs, each sex cell contributes one half of the new organism's chromosomes.
- G. Plants also reproduce sexually when sex cells from the male and female parts of a _____ combine.

Section 2 Genetics—The Study of Inheritance

- A. _____—passing traits from parents to offspring
- B. _____—study of how traits are passed from parents to offspring through small sections of DNA called **genes**

Note-taking Worksheet (continued)

C. What _____ traits?

1. A _____ allele will mask the other allele for a particular trait.
2. _____ alleles show when two copies of the recessive allele are inherited.

D. _____ determines which traits an offspring will inherit from a parent.

E. Differences in organisms result from _____ in the ways a trait appears.

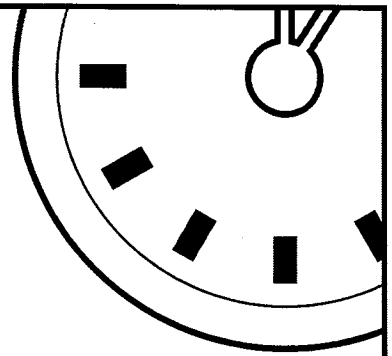
1. Some traits result from _____ alleles and multiple genes.
2. A _____ can create new variations.
3. _____ results in organisms with desired traits.

Chapter 20 Science Vocab Words Due Tuesday March 2, 2021

Using your science book glossary, type the complete definitions for each word on this document. Some words are not found in your glossary but are typed below. Remember to write the complete definition as it shows in your glossary. Reminder: your glossary is in your binder and also linked in Google Classroom under the classwork tab, Science Vocab

1. Chromosome –
2. DNA –
3. Mitosis –
4. Asexual reproduction –
5. Cloning –
6. Sexual reproduction –
7. Sex cell –
8. Meiosis –
9. Fertilization –
10. Cell division – after mitosis has taken place, the rest of the cell divides into two cells of about equal size
11. Budding – a new individual grows on the parent, having the same shape and characteristics as the parent organism. The bud matures and eventually breaks away to live on its own
12. Regeneration – some organisms are able to replace body parts that have been lost because of an injury. Sea stars can grow a new arm; chameleons can grow a new tail
13. Heredity –
14. Genetics –
15. Gene –
16. Variation –
17. Mutation –
18. Allele – the name given to each gene in a gene pair
19. Dominant – the allele that covers over or masks another allele of the trait
20. Recessive – the allele that is masked or covered up
21. Hybrid – one allele is dominant and the other is recessive. The dominant trait is seen
22. Pure – both alleles are identical. For example: both are dominant OR both are recessive
23. Genotype -
24. Phenotype – the physical looks of a person; for ex: brown eyes or blonde hair

NAME: _____



MINUTE 9

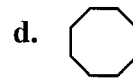
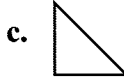
1. Round each number to the nearest ten.

24 =

311 =

107 =

2. Which of the following shapes has a right angle?



3. Which of the following groups of numbers is in order from least to greatest?

a. 323, 411, 421, 506

b. 108, 106, 217, 304

c. 98, 94, 36, 29

d. 200, 199, 198, 405

4. Which of the following is NOT equal to 45?

a. $3 \times 10 \times 2$

b. $3 \times 3 \times 5$

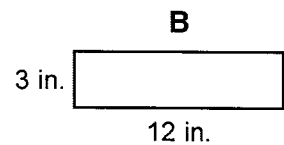
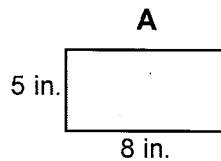
c. $10 + 10 + 10 + 10 + 5$

d. $50 - 5$

5. $12 \times \square = 48$

6. Complete the pattern. $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \underline{\hspace{2cm}}$

7. Which shape has a greater area? _____



For Problems 8–9, use the chart to the right.

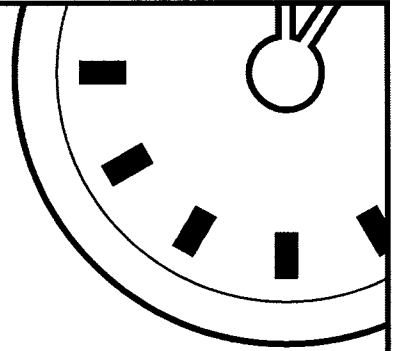
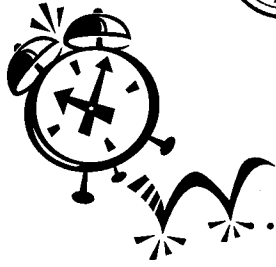
8. Which car weighs the most? _____

9. How much more does the red car weigh than the green car? _____

Weights of cars	
Color	Weight in pounds
Blue	2,786
Red	3,196
Green	2,500

10. $\begin{array}{r} 1.2 \\ \times 0.6 \\ \hline \end{array}$ $\begin{array}{r} 1.4 \\ \times 0.7 \\ \hline \end{array}$ $\begin{array}{r} 2.6 \\ \times 0.8 \\ \hline \end{array}$

NAME: _____

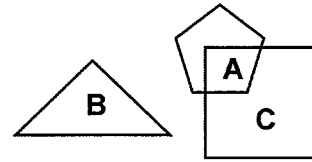


MINUTE 8

1. Justine's bill at a restaurant is \$14.58. She pays with a twenty dollar bill. How much change should she get back? _____

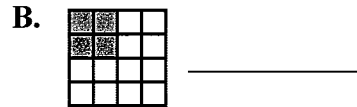
For Problems 2–3, use the diagram to the right.

2. Which letter is inside the square and pentagon?



3. Which letter is outside the pentagon but inside the triangle? _____

4. Write the fraction for the shaded part in each figure below.



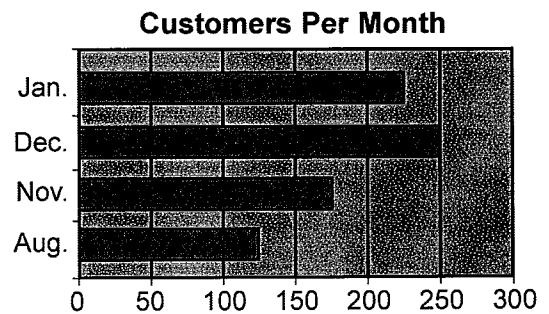
5. If 7 out of 11 balloons are red, what fraction of balloons are NOT red? _____

6. Complete the pattern. 1, 2, 4, 7, 11, _____.

For Problems 7–8, use the bar graph to the right.

7. During which month(s) did more than 200 customers visit the store?

8. In August, half as many customers visited the store as in _____.



9.
$$\begin{array}{r} 3.6 \\ -0.7 \\ \hline \end{array}$$

$$\begin{array}{r} 4.9 \\ -0.6 \\ \hline \end{array}$$

$$\begin{array}{r} 12.75 \\ -0.35 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 22 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 6 \\ \hline \end{array}$$