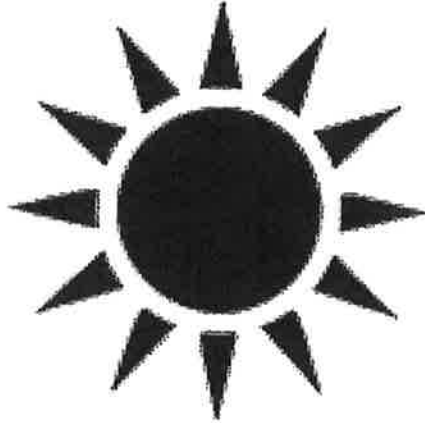# NTI DAY 22

Harrison County Schools

Name: _____

Grade: **4**

Teacher: _____

Complete within 2 weeks of returning to school.

Day 22 Checklist (complete ALL items on the checklist)

Reading

_____ Complete The STORY MAP for "The Girl Who Loved Spiders" story you read on Day 21.

Math

_____ Complete Daily Common Core Review 6-2

_____ Mini Lesson 14-2 (Patterns: Number Rules)
Video can be found at
https://media.pk12ls.com/curriculum/math/enVisionmath_CC20_K6_2016_EN/VLAs/A0281844/
player.html or students can read the lesson of the video on the attached sheet page 740

_____ Complete homework practice pages 743-744

_____ Additional online resources:
Kahn Academy Practice Finding Patterns in Numbers
https://www.youtube.com/watch?v=I-6uEtTBH7g

Science

_____ Read "Traits" Answer the six multiple choice questions and complete the open response on the answer sheet provided.

_____ Learning Resource Video: "Animals with Unique Traits"
https://www.youtube.com/watch?v=XVsIes8mfBQ

Art

_____ Complete Art at Home Activity

Story Map ✳ Sample ✳

Title _Justin and the Best Biscuits in the World_ Chapters 1–3

Setting Justin's house	Characters Justin, Justin's mom (mama), Evelyn, Hadiya, Anthony, Grandpa.

Plot

Beginning

Justin feels like he can't do anything right. He struggles to find his place in a house with all women.

Middle

Justin does not like "women's work." He does not clean his room or make his bed.

End

Grandpa invites Justin to come to his ranch.

Story Map

Title _____

Setting	Characters

Plot

Beginning

Middle

End

1. Alexandra has 127 flowers. She puts the same number of flowers in each of her vases. How many flowers will be left over?

  Ⓐ 3 flowers

  Ⓑ 4 flowers

  Ⓒ 8 flowers

  Ⓓ 12 flowers

2. Look at the model below. Which expression best describes the model?
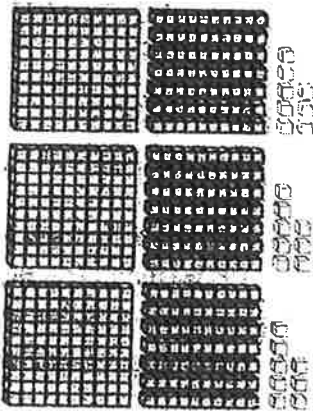
  Ⓐ $3 + (100 + 70 + 8)$

  Ⓑ $3 \times (100 + 70 + 8)$

  Ⓒ $3 \times (100 \times 70 \times 8)$

  Ⓓ $(100 + 70 + 8) \div 3$

3. Keith planted 15 rows of carrots. Each row had 35 carrot plants. How many carrots did Keith plant?

4. Jackson wants to buy a pair of sneakers that cost $106. So far, he has saved $57. How much more does Jackson have to save to buy the sneakers?

5. Write 621,840 in expanded form.

6. Write a number in which the value of the digit in the ten-thousands place is ten times as great as the value of the digit in the thousands place.

7. How many eggs are in 12 dozen?

8. There are 13 items in a baker's dozen. If Natalie orders 9 baker's dozen of muffins, how many muffins did Natalie order?

A

There are 3 leaflets on 1 cloverleaf.
There are 6 leaflets on 2 cloverleaves.
There are 9 leaflets on 3 cloverleaves.
How many leaflets are on 4 cloverleaves?
How many cloverleaves will have 12 leaflets?

A cloverleaf has 3 leaflets.

You can use a table to create, extend, and identify features of a pattern.
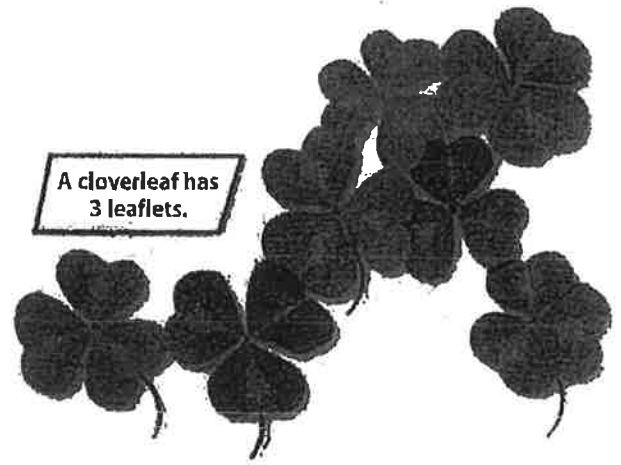
B How many leaflets are on 4 cloverleaves?

Rule: Multiply by 3

Number of Cloverleaves	Number of Leaflets
1	3
2	6
3	9
4 ×3	12

There are 12 leaflets on 4 cloverleaves. The number of leaflets is a multiple of the number of cloverleaves.

C How many cloverleaves for 12 leaflets?

Rule: Divide by 3

Number of Leaflets	Number of Cloverleaves
3	1
6	2
9	3
12 ÷3	4

There are 4 cloverleaves for 12 leaflets. The number of cloverleaves is a factor of the number of leaflets.

Convince Me! @ MP.2 Reasoning If you know the number of leaflets, how can you find the number of cloverleaves? If you know the number of cloverleaves, how can you find the number of leaflets?

Help Practice Buddy Tools Games

Another Look!

Stephanie wants to know how many players are participating in a competition. There are 6 teams. Each team has 11 players. The rule is "Multiply by 11."

Use the rule to complete the table.

Number of Teams	Number of Players
1	11
2	22
3	33
4	44
5	55
6	66

Describe features of the pattern.

- The number of players are multiples of 11.

- The digits in the ones place increase by 1 for each team added.

- The number of teams is a factor of the number of players for each number pair.

There are 66 players participating.

For **1–4**, use the rule to complete each table. Describe a feature of each pattern.

1. Rule: Multiply by 12

Number of Dozens	4	5	6	7
Number of Eggs	48		72	

2. Rule: Divide by 9

Number of Baseball Players	54	63	72	81
Number of Teams	6	7		

3. Rule: Divide by 6

Number of Legs	162	168	174	180
Number of Insects		28	29	

4. Rule: Multiply by 10

Number of Phone Numbers	33	34	35	36
Number of Digits in Phone Numbers	330	340		

5. **© MP.7 Look for Relationships** The table shows the amounts of money Emma earns for different numbers of chores. How much money does Emma earn when she does 6 chores?

Rule: Multiply by 9

Number of Chores	Amount Earned
3	$27
4	$36
5	$45
6	

6. **Math and Science** A *wavelength* is the distance between 1 peak of a wave of light, heat, or other energy to the next peak. Greta measured the distance for 3 wavelengths. What is distance for 1 wavelength?

├────── 168 feet ──────┤
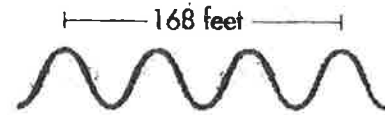
7. Write 894,217 in expanded form and using number names.

8. There are 21,611 more students enrolled in elementary school than in middle school in a city district. If there are 16,247 students enrolled in middle school, how many are enrolled in elementary school?

For **9–10**, the rule is "Divide by 7."

9. Using the rule from the table, how many T-shirts would sell for $168?

10. **Higher Order Thinking** How much more do 30 T-shirts cost than 9 T-shirts? Explain.

Do you need to find the price of 30 T-shirts and 9 T-shirts to solve Exercise 10?

Price	Number of T-Shirts
$147	21
$154	22
$161	23

© Common Core Assessment

11. There are 24 hours in a day. Use the rule "Multiply by 24" to show the relationship between the number of days and the number of hours. Use each digit from the box once to complete the table.

Number of Days	13	14	15	16	17
Number of Hours	☐☐	336	360	384	☐☐

0	1
2	3
4	8

CHAPTER 2: Life Cycles

Read the article below to answer questions 1–7.

Traits

Organisms reproduce, or make more living things of their own kind. People often have traits that are like those of their parents or other family members. A trait is a characteristic that makes one organism different from another. People have thousands of traits that make them who they are. Children look more like their parents, sisters and brothers, and other relatives than like people in other families.

That's because people have traits that were passed along from their parents through heredity. Heredity is the process by which traits are passed from parents to their offspring, their children.

The basic unit of heredity is called a gene. Genes inside the cells of living things have information about how the living things will grow and develop. All humans have the same numbers and kinds of genes. However, the information on the genes is not the same.

You get genes from your parents during the process of reproduction. Half of your genes come from your mother and the other half from your father. When you were born, you had the same set of genes you have now. You have them your entire life.

Some traits, such as a person's natural hair color, are determined by heredity alone. Some traits come from several genes. One of these is eye color. People have blue, brown, green, hazel, or gray eyes. That is because there are many possible gene combinations for eye color.

Many inherited traits may be influenced by an organism's surroundings and upbringing. For example, genes carry information for the height you could be as an adult. If you eat well and take care of your body, it will be able to grow as tall as possible. So your height is a trait that can be affected by your behavior.

© Harcourt

Please mark your answer for each multiple-choice question by filling in the circle completely for the correct answer. Mark only one answer for each question. If you do not know the answer, make your best guess.

1. Which of the following is NOT an inherited trait?

(A) eye color

(B) height

(C) hair color

(D) hairstyle

2. What are genes?

(A) surroundings and upbringing

(B) the basic units of heredity

(C) parents, brothers, and sisters

(D) traits passed from parents to their offspring

3. From where does an offspring get its genes?

(A) from its mother

(B) from its father

(C) half from its mother and half from its father

(D) mostly from its mother

4. A mother and father have two sons and two daughters. Which of the following is a FACT?

(A) The sons look like the father and the daughters look like the mother.

(B) All the children have the same eye color and hair color.

(C) All the children inherited genes from both their father and their mother.

(D) If one parent needs eyeglasses, some of the children will need eyeglasses.

5. What will happen if a person's hair is dyed from brown to blonde?

(A) The person's genes for hair color will not change.

(B) All the person's children will inherit blonde hair.

(C) Some of the person's children will inherit blonde hair.

(D) The person's genes for hair color will change.

PLEASE GO ON TO THE NEXT PAGE →

© Harcourt

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HINT Think about how people inherit traits.

6. Why might a boy look like his mother's father?

   (A) because the boy did not inherit any genes from his father

   (B) because the boy inherited genes from his mother, who inherited genes from her father

   (C) because the boy has blue eyes and his mother's father has brown eyes

   (D) because the boy spends a lot of time with his mother's father

OPEN-RESPONSE QUESTION

> Read all parts of the open-response question before you begin. Use the grid on the next page to create any required charts or graphs. If a question does not require a chart or graph, write your written response over the grid lines.

HINT Recall what inherited traits are.

7. Although some traits are affected only by genes, most traits develop through a combination of heredity and environmental influence.

   a. In the chart on the next page, list SIX traits children inherit from their parents.

   b. Choose one trait from your chart and tell why it is NOT affected by one's behavior or surroundings.

   c. Choose another trait from your chart and tell how it IS affected by one's behavior or surroundings.

PLEASE GO ON TO THE NEXT PAGE →

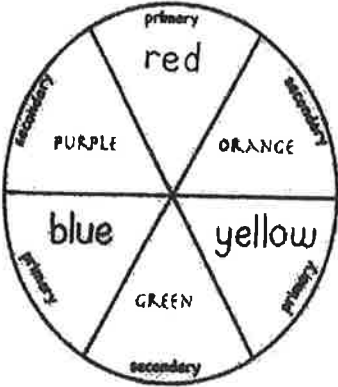| Traits Children Inherit from Their Parents |
|---|
| 1. |
| 2. |
| 3. |
| 4. |
| 5. |
| 6. |

STOP!

NTI Art at Home K-5

Directions: For NTI day 22, choose one activity (different from day 12) to complete for art class. Use any materials you have at home to complete the challenge. Take your time and have FUN!

Draw an egg and fill it with zentangle designs.	*** Create something out of found objects (recycled goods, things found in nature, etc.). *** Parent Initial: _____	*** Create a beautiful flower out of the materials of your choice (collage, draw, paint, crayons, house hold items). *** Parent Initial: _____
Collage: a piece of art created by combining photos, magazine clippings, or other materials onto a surface such a paper and cardboard (pizza boxes, cereal boxes). Create an "All About ME" collage.	*** Using household items, create a color wheel by correctly arranging the items in a circle. *** primary red secondary PURPLE ORANGE blue yellow primary GREEN secondary Parent Initial:	Research an artist. Complete an Artist Study. - What materials did this artist use? - What are some of their famous works of art? - In your own words describe their art. - Optional: Create your own work in the style of the artist you chose.
Watch art lesson with Mrs. Smiley! https://m.youtube.com/watch?v=OZ1Gb7dirb4&feature=youtu.be	Illustrate a character from your favorite book.	Find a photograph or picture of a person, place, or object and sketch it.

Any activity with *:** If possible, please upload a photo of your activity on ClassDojo, School Facebook Site, email to chelsey.smiley@harrison.kyschools.us or any other school site. These activities also need a parent initial in that box and returned to school. Any other activities will need to be returned to school.

If having difficulty with blank paper, use the back of this sheet.