Name _____ Section _____

Chapter 20 Vocabulary

I M Z N I N S P H Z W J N S E

S U E F O I I E F G B O F E P

Q M M I S I R X V G I K R X Y

Y S Q O O E T J I T M T Y C T

V P T W D S K A A F F Y W E O

V I D I C W I Z T T W T L L N

M A T P W N I S Z U Q C C L E

T Y R B V L E Z G S M K Z S G

K Y D I I C H R O M O S O M E

Q N M T A J Y K J Q X N G K T

A Z R B P T X N R K S M E W O

G E J X S C I T E N E G N Q N

F B P Q X C L O N I N G E G M

Z A T M J V O L N P A P C U J

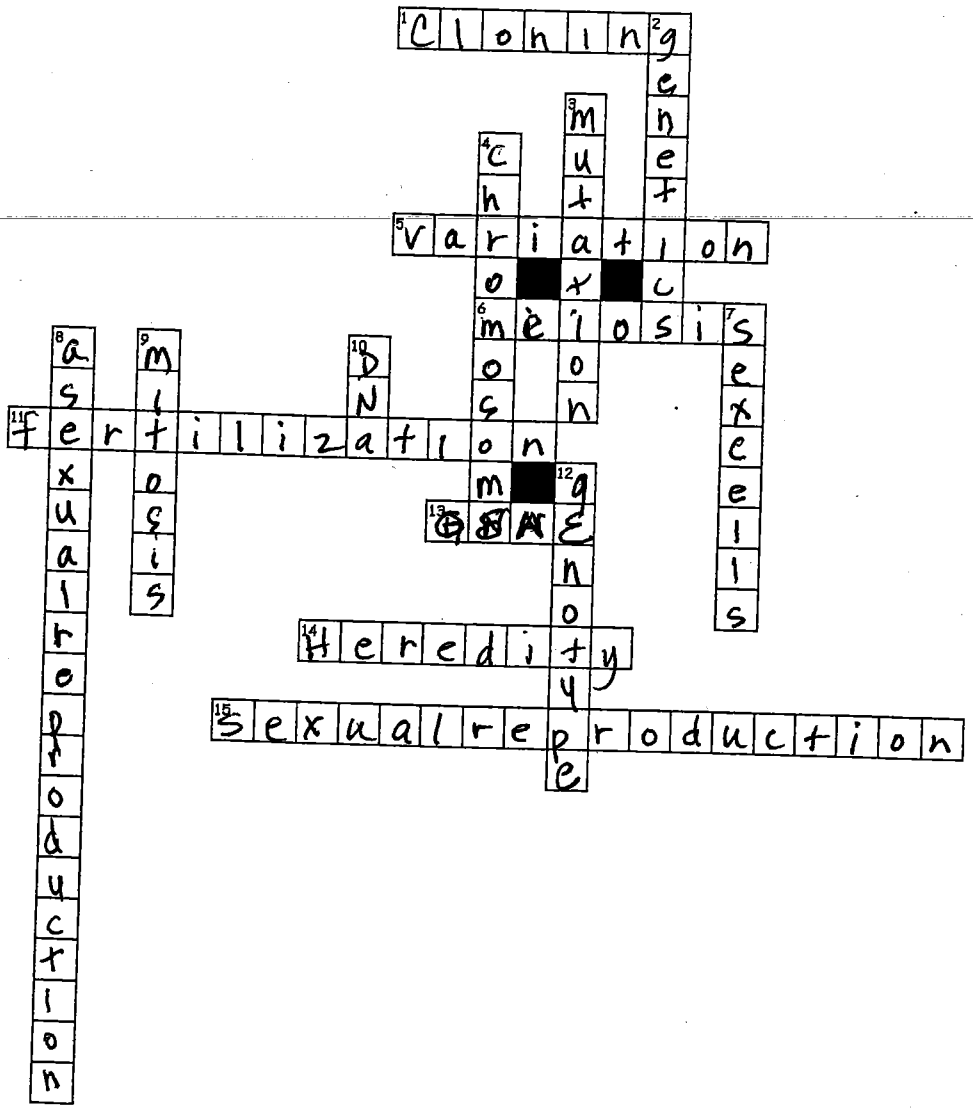
B H P W A M B N C K J X L Y Y

CHROMOSOME
FERTILIZATION
GENOTYPE
MITOSIS
VARIATION

CLONING
GENE
HEREDITY
MUTATION

DNA
GENETICS
MEIOSIS
SEXCELLS

Chapter 20 Vocabulary



Across
1. making copies of organisms, each of which is a clone that receives DNA from only one parent
5. different ways that a trait can appear - for example, differences in height, hair color, or weight
6. process in which sex cells are formed in reproductive organs; involves two divisions of the nucleus, producing four sex cells, each
11. the process in which sperm and egg join, resulting in a new organism
13. small section of DNA on a chromosome that carries information about a trait.
14. passing on of traits from parents to offspring
15. a type of reproduction in which a new organism is produced from the DNA of two sex cells (egg and sperm)

Down
2. study of how traits are passed from parent to offspring
3. change in a gene or chromosome that can result from something in the environment or an error in mitosis or meiosis; can be harmful,
4. structure in a cell's nucleus that contains genetic material
7. specialized cells that are produced by the process of meiosis, carry DNA, and join in sexual reproduction
8. a type of reproduction, such as budding or regeneration, in which a new organism is produced from a part of another organism by the
9. cell division process in which DNA in the nucleus is duplicated and the nucleus divides into two nuclei that contain the same genet
10. a chemical inside cells that contains hereditary information and controls how an organism will look and function.
12. the genetic makeup of an organism

Am I Wrong? By Nico & Vinz

Am I wrong for thinking out the box from where I stay?

Am I wrong for saying that I'll choose another way?

I ain't trying to do what everybody else doing

Just cause everybody doing what they all do

If one thing I know, how far would I grow?

I'm walking down this road of mine, this road that I call home

So am I wrong for thinking that we could be something for real?

Now am I wrong for trying to reach the things that I can't see?

But that's just how I feel, that's just how I feel

That's just how I feel trying to reach the things that I can't see

Am I tripping for having a vision?

My prediction, I'mma be on the top of the world

Hope you, hope you don't look back, always do what you decide

Don't let them control your life, that's just how I feel

Fight for yours and don't let go, don't let them compare you, no

Don't worry, you're not alone, that's just how we feel

So am I wrong for thinking that we could be something for real?

Now am I wrong for trying to reach the things that I can't see?

But that's just how I feel, that's just how I feel

That's just how I feel trying to reach the things that I can't see

If you tell me I'm wrong, wrong

I don't wanna be right, right

If you tell me I'm wrong, wrong

I don't wanna be right

So am I wrong for thinking that we could be something for real?

Now am I wrong for trying to reach the things that I can't see?

But that's just how I feel, that's just how I feel

That's just how I feel trying to reach the things that I can't see

Name: _____

Theme

What is the theme of the passage?

1. Text:
   _____
   _____
   _____

2. List O' Topics:
   _____
   _____
   _____

3. Sentence about what the author believes:
   _____
   _____
   _____
   _____

4. Revised sentence:
   _____
   _____
   _____
   _____

****Don't forget to complete the RACES response on the back side using your theme in #4****

Finally, place #4 into the RACES format. Be sure to underline your RACES!

Based on what I read, _____

_____

_____

_____

I know this because the text says, _____

_____

_____

_____

_____

_____

This supports my answer because _____

_____

_____

_____

_____

_____

In conclusion, _____

_____

_____

_____

_____

Figurative Language Stories #1
Task A: Identify Figurative Language

Princess Penelope

Find, underline, and label each instance of figurative language in the paragraph. Check it on the list as you go. You should find:

___ simile (2)
___ metaphor
___ hyperbole
___ personification (2)
___ alliteration (2)
___ onomatopoeia (2)
___ idiom
___ allusion

Tonight was the night she had been waiting for. Princess Penelope was head over heels for Prince Patrick and she had finally persuaded her father to allow her to attend the annual royal ball. She could hardly wait. Upon hearing the news, Penelope had sprinted like a cheetah all the way down to the royal dress shop to pick out the perfect dress. As she searched through the racks, each dress seemed to shudder with excitement, waiting to be chosen. Glancing around, Penelope's eyes landed on the most beautiful dress ever made. The dress was a sparkling ruby as it reflected light from every angle. Penelope thought the dress must be the color of Dorothy's slippers. Trying on the dress, Penelope knew it was meant to be worn by her. Now at the ball, her dress swished as she passed the prince. When she turned around, she found his eyes fixed on hers like laser beams.

MP Problem-Solving Investigation

Act It Out

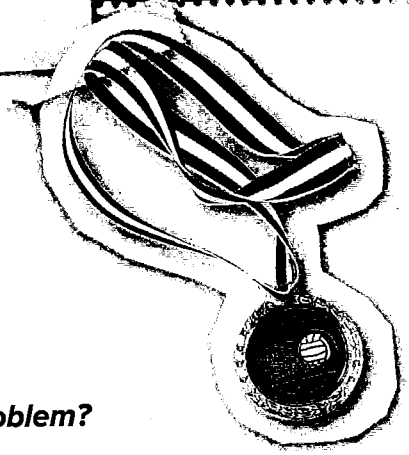
CCSS Content Standards
6.EE.2

MP Mathematical Practices
1, 3, 4

Case #1 Table Trouble

Ariana is arranging tables for her volleyball banquet. The rectangular tables can seat up to 6 people. She can line up tables to seat more people.

How many people can be seated using four tables?

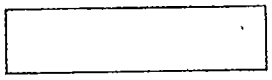


1 Understand ***What are the facts?***

Each rectangular table can seat up to 6 people.

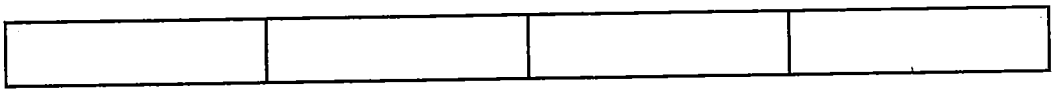
2 Plan ***What is your strategy to solve this problem?***

Use the rectangle to represent one table. Use counters to represent each seat. Draw an X to show where each counter was placed.



3 Solve ***How can you apply the strategy?***

Act out the situation to find the number seats at four tables. Use counters to represent each seat. Draw an X to show where each counter was placed.



Four tables can seat ☐ people.

4 Check ***Does the answer make sense?***

Use the expression $4x + 2$, where x represents the number of tables.

So, ☐ × ☐ + ☐ = ☐. ✓

Analyze the Strategy

Tutor

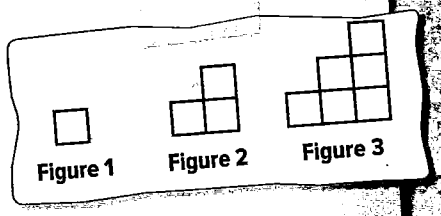
MP **Reason Inductively** Explain how the act it out strategy could help you check the reasonableness of answers. _____

_____

Case #2 Step It Up

Assume the pattern continues in the figures at the right.

Find the number of unit squares in Figure 5.



1 Understand

Read the problem. What are you being asked to find?

I need to find _____.

Underline key words and values in the problem.
What information do you know?

Figure 1 has ☐ square. Figure 2 has ☐ squares. Figure 3 has ☐ squares.

2 Plan

Choose a problem-solving strategy.

I will use the _____ strategy.

3 Solve

Use your problem-solving strategy to solve the problem.

Use counters to recreate the figures.
Use 1 counter for Figure 1, 3 counters for Figure 2, and 6 counters for Figure 3.

☐ counters are added to Figure 1 to make Figure 2.

☐ counters are added to Figure 2 to make Figure 3.

Add ☐ counters to Figure 3 to make Figure 4.

Then add ☐ counters to Figure 4 to make Figure 5.

So, _____.

4 Check

Use information from the problem to check your answer.

To check your answer, draw a model. Draw two additional squares for the first figure, three additional squares for the second figure, and so on.

Work with a small group to solve the following cases. Show your work on a separate piece of paper.

Case #3 Teams

Twenty-four students will be divided into four equal-size teams. Each student will count off, beginning with the number 1 as the first team.

If Nate is the eleventh student to count off, to which team number will he be assigned?

Case #4 Savings

Dakota has $5.38 in her savings account. Each week she adds $2.93.

How much money does Dakota have after 5 weeks? after n weeks?

Case #5 Vacations

The Florida tourism board surveyed people on their favorite vacation cities. Half of the people said Orlando, $\frac{1}{4}$ said Miami, $\frac{1}{8}$ said Kissimmee, $\frac{1}{16}$ responded Fort Lauderdale, $\frac{1}{32}$ said Key West, and the rest said Tampa.

If 22 people said Tampa, how many people responded Orlando?

Case #6 School

The birth months of the students in Miss Desimio's geography class are shown.

Birth Months		
June	July	April
March	July	June
October	May	August
June	April	October
May	October	April
September	December	January

What is the difference in the percentage of students born in June than in August? Round to the nearest whole percent.

Mid-Chapter Check

Vocabulary Check

1. **MP Be Precise** Define *powers*. Provide an example of power with an exponent of 2. (Lesson 1)

2. Fill in the blank in the sentence below with the correct term. (Lesson 2)

   The _____ tells you which operation to perform first so that everyone finds the same value for an expression.

Skills Check and Problem Solving

Write each power as a product of the same factor. Then find the value. (Lesson 1)

3. $7^2 =$ _____

4. $5^5 =$ _____

Evaluate each expression if $x = 6$. (Lesson 3)

5. $x + 11$ _____

6. $4(x - 5)$ _____

7. $2x \div 6$ _____

8. **MP Reason Abstractly** Tia is 8 years younger than her sister Annette. Annette is y years old. Write an algebraic expression that describes Tia's age. (Lesson 4)

9. **MP Reason Abstractly** The prices per pound of different types of nuts are shown. Write an expression that can be used to find the total cost of 2 pounds of peanuts, 3 pounds of cashews, and 1 pound of almonds, all for 20% off. (Lesson 2)