Summer Homework –
11/12

Student Name: ____________________________

Completed packet is due on the first day of school.
See you on Monday, August 19, 2019
Summer Homework – Standard Packet

Grade 11 and 12
Gamble Montessori High School
2019 – 2020 School Year

Each student must complete:

English (AA or AP depending on which you are taking)
Anatomy and Physiology
Government/Economics (11th only)
Psychology/Sociology (12th only)
Math that corresponds to the course you are taking

Additionally certain students will have additional work;
12th graders must complete Senior Project
Anyone taking Spanish must complete the appropriate level (Remedial, III / IV)

If you are taking any other 9th/10th grade course (Geometry, American History, etc) you will need to pick up the appropriate packet from the main office.

Make sure you pick up the supplies you’ll need, most of them are listed on the back of this page.

Please read the summer homework carefully; it is all due the first day of school. If you have questions, please contact the appropriate teacher:

- English – Mr. Ogilby – ogilbyb@cps-k12.org
- Anatomy and Physiology – Mr. Banks – banksja@cps-k12.org
- Math (Except AP Stats) – Ms. Erin – wilsone@cps-k12.org
- AP Stats – Ms. Stanton – stantot@cps-k12.org
- Governomics and Psych/Soc – Mr. Vogt – voigtjos@cps-k12.org
- Senior Project – Mr. Vogt or Mr. Ogilby
- Spanish – Ms. Worrell – worrele@cps-k12.org
- IEP/Inclusion Assistance (12th) – Mr. Kane – kanemat@cps-k12.org
- IEP/Inclusion Assistance (11th) – Ms. Maloney – malonea@cps-k12.org

And don’t forget to find some time to enjoy your summer!!
Supply List

English
- Two composition books
- One pack of black or blue pens
- One pack of highlighters (assorted colors)
- One two-pocket folder labeled “English”

Chemistry OR Anatomy and Physiology
- Chemistry safety goggles (splash proof)
- Two Composition books
- Mechanical Pencils

Government/Economics (11th) OR Psychology/Sociology (12th)
- Binder – 1 inch
- Dividers
- A one-subject spiral notebook dedicated to this course

Senior Project (12th)
- Binder – 1 inch
- Dividers

AP Stats
- Notebook
- Writing utensil
- TI84 or TI84CE (chargeable) graphing calculator STRONGLY encouraged.

Algebra 2/Pre-Calc/Prob and Stats
- Either a binder with pockets and loose leaf OR a dedicated notebook and pocket folder (your preference).
- Writing utensil
- TI84 graphing calculator – STRONGLY encouraged for Pre-Calc, optional but encouraged for the other 2 classes.
- Regular scientific calculator, especially if you aren’t getting a graphing calculator.
- A pack of graph paper.

Team Community WISH LIST – if your family is able to pick up any of these items to donate to the team, they would be greatly appreciated.
- Kleenex
- Paper Towels
- Hand Sanitizer
- Cleaning Supplies
- Dish Rags / Dish Towels
- Sponges
- Pens and Pencils
English 11/12 AA

Part 1
Due Date: August 19, 2019

Letter to the Future
For this assignment, you will write a letter to your future self exploring your interests and motivations for this course. You should consider:

1) What skills you hope to hone or develop in Mr. Ogilby’s class.
2) What you intend to do to better prepare yourself for this class.
3) What barriers to success you might encounter this year.
4) What concerns you have about taking this class

This letter should be thoughtful and well-written. Use formal academic language and follow the appropriate business letter format. (Google this if you’re unsure what it is). Your letter should be informational, but don’t be afraid to use your writing voice to express yourself. Lively, interesting writing is always better than boring, lackluster writing!

Requirements
- 1 - 2 pages, 12pt Times New Roman, double-spaced
- NO grammatical or spelling errors
- typed

Bring your PRINTED and completed letter to school on August 19th.
Part 2
Due Date: August 19, 2019

Reading List

1. *The Immortal Life of Henrietta Lacks*, by Rebecca Skloot
2. *Into the Wild*, by Jon Krakauer

You will purchase and read ONE of the two books listed above and keep a dialectical journal for it. *You should purchase and use a single subject notebook for your journal responses*, and each entry will consist of quotations from the book and a critical response to each quote.

As you’re reading each book, select one quotation or passage for approximately every 20 pages. Respond to the quotations, focusing on the *ways in which the author uses language to create an effect*. Consider:

- What is it about the language that stands out and makes the passage distinctive?
- How does the passage reflect the author’s style and reveal larger themes of the work?

I expect responses to be developed thoughtfully and intellectually. Responses should be approximately 60 words in length.

The dialectical journals should be constructed in the following manner:

<table>
<thead>
<tr>
<th>Quotation</th>
<th>Response</th>
</tr>
</thead>
</table>
| Write the quote directly as it appears in the book. Be sure to cite it using MLA format (see example below). | For the RESPONSE column, choose one of the response techniques below:  
- Raise questions about the beliefs and values implied in the text  
- Give your personal reactions to the passage  
- Discuss the words, ideas, or actions of the author or a character  
- Tell what it reminds you of from your own experiences  
- Write about what it makes you think or feel  
- Argue with or speak to the character or author |

Bring your BOOK and your JOURNAL to school on August 19th, 2019.
AP English Language and Composition

Part 1
Due Date: August 19, 2019

Letter to the Future
For this assignment, you will write a letter to your future self explaining what you hope to learn and accomplish this year in Mr. Ogilby’s class. You should consider:

1) What you hope to gain by taking this challenging course.
2) What you intend to do to better prepare yourself for this class.
3) What barriers to success you might encounter this year.

This letter should be thoughtful and well-written. Use formal academic language and follow the appropriate business letter format. (Google this if you’re unsure what it is). Your letter should be informational, but don’t be afraid to use your writing voice to express yourself. Lively, interesting writing is always better than boring, lackluster writing!

Requirements
- 1.5 - 2 pages, 12pt Times New Roman
- NO grammatical or spelling errors
- typed

Bring your PRINTED and completed letter to school on August 19th.
Part 2
Due Date: August 19, 2019

Reading List
1. The Immortal Life of Henrietta Lacks, by Rebecca Skloot
2. Into the Wild, by Jon Krakauer

You will purchase and read BOTH of the two books and keep a dialectical journal this summer for each of the books above. You should purchase and use a single subject notebook for your journal responses, and each entry will consist of quotations from the book and a critical response to each quote.

As you’re reading each book, select one quotation or passage for approximately every 15 pages. Respond to the quotations, focusing on the ways in which the author uses language to create an effect.

Consider:
- What is it about the language that stands out and makes the passage distinctive?
- How does the passage reflect the author’s style and reveal larger themes of the work?

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  - Discuss the words, ideas, or actions of the author or a character
  - Tell what it reminds you of from your own experiences
  - Write about what it makes you think or feel
  - Argue with or speak to the character or author |
Gamble Montessori HS Anatomy Summer Homework

These activities are designed to help prepare you for some of the work that we will be experiencing this year, and to help expand your understanding of some key concepts. They will be graded according to the rubric below and your completion of the required evidence. Please follow the directions for all assignments and remember to ALWAYS ASK FOR PARENT / GUARDIAN PERMISSION BEFORE YOU START AN EXPERIMENT. Best of luck and enjoy your summer!

**Rubric:**

**Adequate** = student completed the assignment, including all required evidence, in a neat and orderly fashion.

**Inadequate** = student did not include all required evidence and/or student did not present the evidence in a neat and orderly fashion.

**Students must complete:**
- at least FOUR experiments
- TWO science readings
- TWO disease charts

**Students can improve their rubric score by completing more than four experiments**

Rubric scores:

- **4** – Student submits summer homework with **SIX** adequate Experiments, **TWO** adequate Readings and **TWO** adequate disease charts. *(This is an “A”).*
- **3** – Student submits summer homework with **FIVE** adequate Experiments, **TWO** adequate Readings and **TWO** adequate disease charts. *(This is a “B”).*
- **2** – Student submits summer homework with **FOUR** adequate Experiments, **TWO** adequate Readings and **TWO** adequate disease charts. *(This is a “C”).*
- **1** – Student submits summer homework, but Experiment(s), reading(s) and/or disease charts is/are inadequate. *(This is an “F”).*
- **0** – Student does not submit required minimum summer homework (FOUR Experiments, TWO Readings and TWO disease charts). *(This is a zero.)*

*A score of “0” or “1” is not a passing score*

**This packet is due the first day of school - August 19, 2019.**
Grade Sheet

Student Name: ___________________________ Rubric Score: ______
(Teacher completes)

Please initial by the Experiments/Reading that you performed.

**Experiments (at least FOUR required)**

<table>
<thead>
<tr>
<th>Experiment</th>
<th>Student</th>
<th>Teacher Initials</th>
</tr>
</thead>
<tbody>
<tr>
<td>What's this thing called MUSCLE?</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Oxygen Leaves!</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Houses and Homes?</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Bags of Bananas</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Spreading Molecules!</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Go to the Zoo</td>
<td>______</td>
<td>______ ________</td>
</tr>
<tr>
<td>Create your own!</td>
<td>______</td>
<td>______ ________</td>
</tr>
</tbody>
</table>

**Readings (TWO required)**

Name of Article: __________________________
Magazine: __________________________
(Include Name, Date and Volume #, or web address)

Name of Article: __________________________
Magazine: __________________________
(Include Name, Date and Volume #, or web address)

**Disease charts (TWO required)**

Name of Disease: __________________________
(Includes Description, Symptoms, Cause, Treatment, Prognosis)

Name of Disease: __________________________
(Includes Description, Symptoms, Cause, Treatment, Prognosis)
**Experiment #1**  
**What's this thing called MUSCLE?**

**What you need:**
1. Doorway
2. Your Sweet Self

**What you do:**
1. Stand in the doorway with the palms of your hands on the sides of your legs. 
2. Lift up your hands until the back of your hands touch the doorway. 
3. Push firmly (not too hard) on the doorway and count slowly to 50 (for about a minute). 
4. Step out of the doorway, take a deep breath and exhale it in one deep exhale. 
5. Record your observations.

**Required Evidence:**
1. A one-paragraph description as to what happened after you stepped out of the doorway
2. A one-paragraph description of how muscles work
3. Drawings of muscles while “working” and “not working”

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**Experiment #2**  
**Oxygen Leaves!**

**What you need:**
1. Clear, wide-mouth jar
2. Water
3. 1 Leaf
4. Magnifying Glass

**What you do:**
1. Fill the jar with water and put the leaf in. 
2. Put the jar in a sunny spot for about one hour. 
3. With a magnifying glass, record what happens in the jar. 
4. Repeat the experiment, but this time, put the jar in the dark.

**Required Evidence:**
1. Drawing of what you have done
2. A drawing of the inside of the leaf with stomata labeled
3. A **three-paragraph** essay describing photosynthesis and an explanation of what is happening

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**Experiment #3**  
**Every Breath You Take**

**What you need:**
1. Stop watch

**What to do:**
1. Sit down for at least 1 minute. Count how many breaths you take in 15 seconds. Multiply by 4 to get breaths / minute. Record this value.
2. Do 25 jumping jacks and then count how many breaths you take in 15 seconds. Multiply by 4 to get breaths / minute. Record this value.

**Required Evidence:**
1. Bar graph of your data
2. A **two-paragraph** essay describing why you need oxygen. Include information what process you use it for.
3. A **two-paragraph** essay describing how you make carbon dioxide and how you get rid of carbon dioxide
Experiment #4  Bags of Bananas!
What you need:
1. Four sealable plastic sandwich bags
2. One banana
3. Butter knife
4. Two packets of yeast
5. Water

What to do:
1. GO OUTSIDE and label the bags "A," "B," "C," and "D."
2. Cut the banana into 12 slices.
3. Put three slices in each bag.
5. In bag "C," put enough water to cover the banana.
6. In bag "D," put enough water to cover the banana and 1 packet of yeast. ***Bag "D" may POP and release a powerful odor--so go outside***

Required Evidence:
1. Photograph of your experiment with you in it
2. A three-paragraph essay that tries to explain what is happening, with a discussion about micro-organisms and their role in the circle of life
3. Written observations from your experiment

Experiment #5  The Spreading Molecules!
What you need:
1. Two clear glasses
2. Cool and Hot Tap water
3. Food coloring (your choice of colors)
4. Medicine dropper

What to do:
1. Fill one glass with cool water and the other with hot.
2. Make certain that all other variables are the same.
3. Place one drop of food coloring in each glass.

Required Evidence:
1. Observations from the experiment
2. A three-paragraph essay describing why the food coloring spreads out more quickly in one glass than in the other (be sure to include a discussion of kinetic energy, heat, and diffusion)
3. Photograph of the experiment with you in it
Experiment #6  Go to the Zoo

What you need:  1. A Zoo
                2. Some paper and pencil

What to do:  1. Go to a Zoo (here in Cincinnati or another city).
             2. Get a receipt for proof.
             3. Choose five animals and observe their habitat at the zoo. Read about their natural habitat as well.
             4. Write a description of their natural habitat and how they have adapted to survive in that specific habitat.

Required Evidence:  1. Receipt showing zoo admission
                    2. Five different descriptions of five different animals' habitats with adaptations that help the animals survive in that habitat

Experiment #7  The Beat Goes On

What you need:  

What to do:  1. Sit down for at least 1 minute. Find your pulse (on your wrist or on your neck). Use your stop watch to measure 15 seconds while you count how many times your heart beats. Multiply by 4 to get beats/minute.
             2. Run or walk fast for 1 minute and take your pulse again (beats/minute).

Required Evidence:  1. Bar graph of your data
                    2. A two-paragraph essay describing how your heart works and the path blood takes through your body
                    3. A simple drawing of the circulatory system including the heart, some arteries, and some veins

Experiment #8  You Choose!

What you need:  1. Your imagination
                2. Parent/Guardian permission

What to do:  1. That's up to you!

Required Evidence:  1. Detailed description about your experiment including WHY you wanted to perform this experiment and what you were trying to find out
                    2. Pictures, drawings and all other data necessary
Reading #1 & #2 (2 REQUIRED)

TWO Interesting Articles

What you need: 1. Find two science articles that interest you (look on the internet or in science magazines and/or Journals like Science, Scientific American, Nature, Popular Science, etc.).

What to do: 1. Take notes on the two articles and write two essays describing them.

Required Evidence: 1. Two (one for each article), three-paragraph essays that describe and explain the articles.

Disease Chart #1 & #2 (2 REQUIRED)

TWO Disease Charts

What you need: 1. Internet or books

What to do: 1. Research two diseases and complete a chart for each disease with the Required information.

Required Evidence: 1. Two disease charts that include the name of the disease, a description, the symptoms, cause, treatment and prognosis.
Governomics (Government + Economics) 2019-2020
Summer Homework

- First, please log on to Google Classroom and enter the course code below to join the Governomics 2019-2020 Class
  - g39zuju
- You'll find all of the instructions for completing the assignments in the checklist below on the Google Classroom site under the "Classwork" tab at the top of the screen. All assignments should be completed and turned in on Google Classroom.

Summer Homework - Assignment Checklist

- Add Governomics 2019-2020 on Google Classroom
- Philosopher Review
  - This assignment asks you to review some of the major contributions to government of important philosophers you discussed during your 9th/10th grade World History course

To Bring on the First Day...

- 1" or 1.5" binder with at least 5 dividers
- 1 Notebook dedicated to Governomics
- Pencil or Pen (dark color - I can't read light colored pens)

Contact Info:
Josh Vogt
vogtjos@cps-k12.org
Cell: (513) 312-1003

**Text or email is best. Please make sure you identify yourself in the message!**
Psychology/Sociology 2019-2020 Summer Homework

- First, please log on to Google Classroom and enter the course code below to join the Psychology/Sociology 2019-2020 Class
  - r35a6z
- You'll find all of the instructions for completing the assignments in the checklist below on the Google Classroom site under the "Classwork" tab at the top of the screen. All assignments should be completed and turned in on Google Classroom.

Summer Homework - Assignment Checklist

☐ Add Psychology/Sociology 2019-2020 on Google Classroom
☐ Psychologist Mini-Research - Investigation
  - In this assignment, you'll choose one prominent psychologist from the provided list and research their accomplishments. From this, you'll construct a mini-presentation about this psychologist's work.
☐ Article Summaries (x2)
  - You will choose 2 of the articles linked on GC and complete the structured Article Summaries for those two pieces.

To Bring on the First Day...

☐ 1" or 1.5" binder with at least 5 dividers
☐ 1 Notebook dedicated to Psychology/Sociology
☐ Pencil or Pen (dark color - I can't read light colored pens)

Contact Info:
Josh Vogt
vogtjos@cps-k12.org
Cell: (513) 312-1003

**Text or email is best. Please make sure you identify yourself in the message!**
Algebra 2 Summer HW

Multiple Choice
Identify the letter of the choice that best completes the statement or answers the question.

Solve the inequality. Graph the solution set.

1. \(2 + 2k \leq 8\)
   a. \(k \geq 3\)
   b. \(k \leq 5\)

2. \(2r - 9 \geq -6\)
   a. \(r \leq 1\frac{1}{2}\)
   b. \(r \geq -7\frac{1}{2}\)

3. \(2(4y - 5) < -10\)
   a. \(y > 0\)
   b. \(y < -\frac{5}{8}\)

4. Lynn and Dawn tossed a coin 60 times and got heads 33 times. What is the experimental probability of tossing heads using Lynn and Dawn’s results?
   a. \(\frac{20}{11}\)
   b. \(\frac{9}{20}\)
   c. \(\frac{11}{20}\)
   d. \(\frac{9}{11}\)
5. This is a spinner used in a board game. What is the probability that the spinner will land on a multiple of 3 and 4?

\[ \text{Diagram of spinner with sections labeled 64, 24, 12, 22, 10, 18, 36} \]

a. \( \frac{1}{4} \)  
b. \( \frac{1}{2} \)  
c. \( \frac{1}{8} \)  
d. \( \frac{3}{8} \)

6. A spinner is numbered from 1 through 10 with each number equally likely to occur. What is the probability of obtaining a number less than 2 or greater than 7 in a single spin?

a. \( \frac{2}{5} \)  
b. \( \frac{1}{2} \)  
c. \( \frac{3}{5} \)  
d. \( \frac{3}{10} \)

7. A bag contains 6 red marbles, 6 white marbles, and 4 blue marbles. Find \( P(\text{red or blue}) \).

a. \( \frac{2}{3} \)  
b. \( \frac{3}{2} \)  
c. \( \frac{5}{8} \)  
d. \( \frac{3}{4} \)

8. If a dart hits the target at random, what is the probability that it will land in the shaded region?

\[ \text{Diagram of circle with smaller circle shaded} \]

a. \( \frac{1}{4} \)  
b. \( \frac{1}{16\pi} \)  
c. \( \frac{1}{16} \)  
d. \( 16\pi \)

9. The day before the parade, the school band’s starting point was changed. The band director called three band members. Each of these band members called 4 other band members. Then all of these band members called three members. How many band members, not including the band director, are notified of the new starting point?

a. 40 band members  
b. 51 band members  
c. 36 band members  
d. 28 band members
10. A triangle has an angle of 108°, which is twice the measure of another angle in the triangle. What are the measures of the three angles?
   a. 28°, 54°, 113°  
   b. 18°, 54°, 108°  
   c. 28°, 54°, 108°  
   d. 54°, 108°, 162°

11. The total number of horses and people at the riding academy for the Sunday session was 39. The total number of legs at the academy that day was 124. How many people were at the riding academy that Sunday?
   a. 27 people  
   b. 16 people  
   c. 23 people  
   d. 12 people

12. Mimo and Stan went out for some frozen yogurt. They want to leave the server a tip. Mimo has 5 coins in his pocket: a penny, a nickel, a dime, a quarter, and a half-dollar. If he uses exactly three coins for the tip, how many different tips are possible?
   a. 20 tips  
   b. 10 tips  
   c. 5 tips  
   d. 15 tips

13. Suppose you roll a red number cube and a blue number cube. How many different rolls will have a sum of seven?
   a. 3 rolls  
   b. 12 rolls  
   c. 1 rolls  
   d. 6 rolls

14. What is the perimeter of the fifth square in this pattern?

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<p>| | |</p>
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Area = 16  
Area = 64  
Area = 144
```

   a. 60 units  
   b. 80 units  
   c. 400 units  
   d. 256 units

15. There are 8 students in Mr. Alvarez’s art class. Throughout the year, each student must pair up with every other student to complete a project. How many different pairs of students are there?
   a. 30 pairs  
   b. 28 pairs  
   c. 66 pairs  
   d. 56 pairs

16. A gardener builds a fence for a square garden that is 10 yd by 10 yd. A fence post is positioned at every corner and every 5 ft. How many fence posts will the gardener need?
   a. 24 posts  
   b. 9 posts  
   c. 28 posts  
   d. 12 posts

17. Aaron, Bob, Charles, and Daniel live in Tulsa, Portland, Miami, and Michigan. Bob is the brother of the man who lives in Portland. Daniel is not Bob’s brother and does not live in Michigan. Either Aaron or Charles lives in Tulsa. Aaron is an only child. Which person lives in which city?
   a. Aaron, Miami; Bob, Michigan; Charles, Tulsa; Daniel, Portland  
   b. Aaron, Tulsa; Bob, Michigan; Charles, Portland; Daniel, Miami  
   c. Aaron, Portland; Bob, Miami; Charles, Michigan; Daniel, Tulsa  
   d. Aaron, Tulsa; Bob, Portland; Charles, Miami; Daniel, Michigan

18. Robert spent \( \frac{3}{5} \) of his money on lunch and \( \frac{1}{6} \) of the money he had left on a snack and some juice. He left the house with $24. How much money did Robert return with?
   a. $8  
   b. $6  
   c. $10  
   d. $12
19. One grade has 60 students.
   • 29 students have cats and 39 have dogs.
   • 16 students have both cats and dogs, but no gerbils.
   • 6 students have only gerbils.
   • 4 students have both dogs and gerbils, but no cats.
   • 3 students have both cats and gerbils, but no dogs.
   • Only 3 students have all three pets.
   How many students have no cats, dogs, or gerbils?
   a. 55 students  
   b. 5 students  
   c. 7 students  
   d. 57 students

20. Which number does not equal \( \frac{27}{30} \)?
   a. 90%  
   b. 0.27  
   c. 0.9  
   d. \( \frac{9}{10} \)

21. Which percent equals 0.69?
   a. 69%  
   b. 610%  
   c. 6.9%  
   d. 6.10%

22. Sales tax in one state is 9%. What is the amount of tax on a $30.95 purchase?
   a. $27.86  
   b. $9.31  
   c. $31.04  
   d. $2.79

23. There are 1,332 people under the age 20 in Pierce City. This represents 14% of the total population. What is the total population?
   a. 18,648 people  
   b. 13,320 people  
   c. 9,664 people  
   d. 9,514 people

Short Answer

Graph the number on a number line.

24. \( \sqrt{11} \)

25. \( \frac{10}{7} \)

Insert \(<\), or \(=\) to make the sentence true.

26. \( \frac{1}{3} \quad \square \quad \frac{2}{5} \)

27. \( \sqrt{3} \quad \square \quad \sqrt{7} \)

28. 20.28 \( \quad \square \quad \sqrt{256} \)

29. \(|-16| \quad \square \quad |5| \)
30. $|18 + 20| \quad \square \quad |−5 − 2|$

Find the opposite and the reciprocal of the number.

31. 500
32. 3
33. −1.74
34. $4 − π$
35. Simplify $|−11 + 3|$.

Evaluate the expression for the given value of the variable(s).

36. $5a + 5b; \ a = −6, \ b = −5$
37. $\frac{4(3h − 6)}{1 + h}; \ h = −2$
38. $|4b − 4| + |3 − b^2| + 2b^2; \ b = 2$
39. $−x^2 − 4x − 4; \ x = −3$
40. $−2x^3 − x^2 + 5x + 2; \ x = −3$
41. The expression $−16t^2 + 1800$ models the height of an object $t$ seconds after it has been dropped from a height of 1800 feet. Find the height of an object after falling for 4.8 seconds.

Simplify by combining like terms.

42. $4c − 4d + 8c − 3d$
43. $−3(−4y + 3) + 7y$
44. $\frac{x}{2} + \frac{x^2}{3} − \frac{x}{5} − \frac{x^2}{4}$

Solve the equation.

45. $3y + 20 = 3 + 2y$
46. $−5y − 9 = −(y − 1)$
47. $6(x − 0.8) − 0.2(5x − 4) = 6$
48. Find the perimeter of the figure. Simplify the answer.

\[
\begin{array}{c}
x + y \\
4x \\
x \\
y \\
2x
\end{array}
\]

Solve the equation or formula for the indicated variable.

49. \( T = \frac{2U}{E} \), for \( U \)

50. The formula for the time a traffic light remains yellow is \( t = \frac{1}{8}s + 1 \), where \( t \) is the time in seconds and \( s \) is the speed limit in miles per hour.
   a. Solve the equation for \( s \).
   b. What is the speed limit at a traffic light that remains yellow for 4.5 seconds?

Simplify (by hand).

51. \( \frac{1}{8} \cdot \frac{5}{7} \)

52. \( \frac{7}{8} + \frac{1}{6} \)

Divide (by hand).

53. \( \frac{2}{3} \div \frac{3}{6} \)

54. \( \frac{1}{7} \div \frac{9}{21} \)

55. Len has 4 coins in his pocket, all dimes and nickels. The total value is $0.30. What combination of coins does Len have?

56. There are two children in the Brown family. The sum of the children’s ages is 28 and the product of their ages is 195. What are the ages of the children?
57. Yolande returned home from mowing lawns at 2:24 p.m. It took \(1 \frac{3}{4}\) hours to mow the first lawn. The second and third lawns she mowed took \(1 \frac{1}{5}\) hours each. She took only a 45-min break. When did Yolande begin mowing the first lawn?

58. Starting at 5:35 A.M., buses stop at the corner of Oak Street every 20 minutes. You arrive at the stop at 8:45 A.M. How long will you have to wait for the next bus?

59. Write 0.54 as a percent.

60. On three successive days, Jack completed \(\frac{1}{9}\), \(\frac{3}{8}\), and \(\frac{5}{24}\) of a job. How much work does he have left to do on day 4?

61. Monica needs \(1 \frac{1}{3}\) cups of flour for a batch of cookies. How many batches can she make with 10 cups of flour?

62. A bowl contains green, red, and white marbles in the ratio 3 : 4 : 8. Based on this information, what does the ratio 11 : 15 represent?

63. Find the slope of the line.

64. Solve the proportion \(\frac{5}{8} = \frac{h}{40}\).

65. If \(\frac{16}{9} = \frac{80}{n} = \frac{p}{27}\), what are \(n\) and \(p\)?
Pre-Calc Summer HW

Short Answer

1. Name the sets of numbers to which the given number belongs.
   \[ \sqrt{4} \]

2. Name the sets of numbers to which the given number belongs.
   \[ \frac{28}{83} \]

Simplify the given expression. Assume that no variable equals 0.

3. \( (19x^{-12}y^6)(-4x^{14}y^{17}) \)

4. \( 20x(8xy^{20})(-10x^{-10}y^{10}) \)

5. \( \left( \frac{8x^6y^6}{4x^3y^{12}} \right)^2 \)

6. \( \left( \frac{12x^{19}y^{9}}{24x^{11}y^{13}} \right)^4 \)

Express the given number in scientific notation.

7. 3931710

8. 0.000134070

Evaluate the expression. Express the result in scientific notation.

9. \( (9.32 \times 10^{-3})(9.3 \times 10^{-6}) \)

10. \( \frac{48.82 \times 10^{26}}{2 \times 10^5} \)

11. Evaluate the given expression if \( m = 61 \).
    \[ | -3m | \]

12. Evaluate the given expression if \( k = -48 \).
    \[ 5| k + 10 | - | 4k | \]

Find the midpoint of the line segment with endpoints at the given coordinates.

13. \((-9, 5)\) and \((-11, -10)\)
14. \((2, -18)\) and \((-12, -7)\)

Find the distance between the pair of points with the given coordinates.

15. \((-12, 7)\) and \((10, -3)\)

16. \((-5, 14)\) and \((-12, -11)\)

Solve the given equation. Check your solution.

17. \(46p - 14 = 36\)

18. \(57p - 13p + 61p - p = 128\)

19. \(\frac{39}{2} m - 13 = \frac{73}{2}\)

20. \(43m + \frac{26}{7} = \frac{84}{7}\)

21. \(9.16p - 11 = 24 + 7.16p\)

22. \(170.1m - 180 = 85.1m + 110\)

23. \(22 = -11(y + 7)\)

24. \(49(46x + 3) - 6(13x + 7) = 149\)

25. \(|m - 1| = 23\)

26. \(20|2s + 5| = 24\)

Solve the given equation or formula for the specified variable.

27. \(u = \frac{f}{t}\), for \(t\)

28. \(\frac{m(a - 16)}{p - 20} = y\), for \(a\)

Solve the given inequality. Describe the solution set using the set-builder or interval notation. Then, graph the solution set on a number line.

29. \(m + 4 \geq 7\)

30. \(5.4 - 2p \leq 0\)

31. \(p \leq \frac{p + 11}{10}\)

32. \(\frac{8 - p}{2} \leq 1\)
33. \(4m + 12 \leq 34\)
34. \(0.4x + 2.4 \geq 3.2\)
35. \(8(11m + 6) \leq 10\)
36. \(\left(\frac{1}{4}m + 3\right) \leq 1\)
37. Write the equation \(4y = 17x + 1.1\) in standard form \((Ax + By = C)\). Identify \(A\), \(B\), and \(C\).
38. Write the equation \(4y = \frac{3}{16}x - 0.8\) in standard form. Identify \(A\), \(B\), and \(C\).
39. Write an equation in slope-intercept form for the line that satisfies the following condition:
   slope 4, and passes through (2, 20)
40. Write an equation in slope-intercept form for the line that satisfies the following condition:
   slope \(\frac{7}{13}\) and passes through (6, -15)
41. Write an equation in slope-intercept form for the line that satisfies the following condition:
   passes through (1, -20) and (18, 3)
42. Write an equation in slope-intercept form for the line that satisfies the following condition:
   passes through (9, -9), parallel to the graph of \(y = \frac{20}{3}x + 10\)
43. Write an equation in slope-intercept form for the line that satisfies the following condition:
   passes through (23, 4), perpendicular to the graph of \(y = \frac{7}{12}x + 15\)

*Factor the polynomial completely.*

44. \(11x^4y - 22x^2y^2\)
45. \(10a^4b^2 - 15a^3b^2\)
46. \(12x^2 - 16x + 4\)
47. \(11x^2 - 28x + 12\)
48. \(63x^2 - 4x - 35\)
49. \(4x^2 + 5x - 6\)
50. \(x^3 + 216\)
51. \(c^3 - 512\)
52. \(x^4 - 20x^2 + 64\)
Name: ____________________

Solve the equation by factoring.

53. \( x^2 + 8x - 48 = 0 \)
54. \( 2x^2 + 14x + 12 = 0 \)

Solve the equation by using the Square Root Property.

55. \( 16x^2 + 32x + 16 = 81 \)
56. \( 16x^2 + 16x + 4 = 49 \)

Find the exact solution of the following quadratic equation by using the Quadratic Formula.

57. \( x^2 - 7x = 60 \)
58. \( -x^2 + 7x + 11 = 0 \)
59. \( x^2 + 10x + 35 = 0 \)
60. Simplify \( \sqrt{-175} \) using the imaginary number \( i \).

Simplify the imaginary expression.

61. \( (6 - 14i) + (19 - 10i) \)
62. \( (2 + 3i)(8 - 9i) \)
63. \( (-1 + 10i)(-12 - 7i) \)

Solve the given inequality. Graph the solution set on a number line.

64. \( |m| \geq 10 \)
65. \( |p - 5| < 9 \)
Probability and Statistics Summer HW (NOT AP STATS)

Multiple Choice
Identify the letter of the choice that best completes the statement or answers the question.

Solve the inequality. Graph the solution set.

1. $2 + 2k \leq 8$
   a. $k \geq 3$
   b. $k \leq 5$
   c. $k \leq 3$
   d. $k \geq 5$

2. $2r - 9 \geq -6$
   a. $r \leq 1\frac{1}{2}$
   b. $r \geq -7\frac{1}{2}$
   c. $r \geq 1\frac{1}{2}$
   d. $r \leq -7\frac{1}{2}$

3. $2(4y - 5) < -10$
   a. $y > 0$
   b. $y < -\frac{5}{8}$
   c. $y < 0$
   d. $y > -\frac{5}{8}$

4. Lynn and Dawn tossed a coin 60 times and got heads 33 times. What is the experimental probability of tossing heads using Lynn and Dawn’s results?
   a. $\frac{20}{11}$
   b. $\frac{9}{20}$
   c. $\frac{11}{20}$
   d. $\frac{9}{11}$
5. This is a spinner used in a board game. What is the probability that the spinner will land on a multiple of 3 and 4?

![Spinner Diagram]

a. $\frac{1}{4}$  
b. $\frac{1}{2}$  
c. $\frac{1}{8}$  
d. $\frac{3}{8}$

6. A spinner is numbered from 1 through 10 with each number equally likely to occur. What is the probability of obtaining a number less than 2 or greater than 7 in a single spin?

a. $\frac{2}{5}$  
b. $\frac{1}{2}$  
c. $\frac{2}{2}$  
d. $\frac{3}{10}$

7. A bag contains 6 red marbles, 6 white marbles, and 4 blue marbles. Find $P$(red or blue).

a. $\frac{2}{3}$  
b. $\frac{3}{2}$  
c. $\frac{5}{8}$  
d. $\frac{3}{4}$

8. If a dart hits the target at random, what is the probability that it will land in the shaded region?

![Dart Diagram]

Drawing not to scale

a. $\frac{1}{4}$  
b. $\frac{1}{16}\pi$  
c. $\frac{1}{16}$  
d. $16\pi$

9. The day before the parade, the school band's starting point was changed. The band director called three band members. Each of these band members called 4 other band members. Then all of these band members called three members. How many band members, not including the band director, are notified of the new starting point?

a. 40 band members  
b. 51 band members  
c. 36 band members  
d. 28 band members
10. A triangle has an angle of 108°, which is twice the measure of another angle in the triangle. What are the measures of the three angles?
   a. 28°, 54°, 113°  
   b. 18°, 54°, 108°  
   c. 28°, 54°, 108°  
   d. 54°, 108°, 162°

11. The total number of horses and people at the riding academy for the Sunday session was 39. The total number of legs at the academy that day was 124. How many people were at the riding academy that Sunday?
   a. 27 people  
   b. 16 people  
   c. 23 people  
   d. 12 people

12. Mimo and Stan went out for some frozen yogurt. They want to leave the server a tip. Mimo has 5 coins in his pocket: a penny, a nickel, a dime, a quarter, and a half-dollar. If he uses exactly three coins for the tip, how many different tips are possible?
   a. 20 tips  
   b. 10 tips  
   c. 5 tips  
   d. 15 tips

13. Suppose you roll a red number cube and a blue number cube. How many different rolls will have a sum of seven?
   a. 3 rolls  
   b. 12 rolls  
   c. 1 rolls  
   d. 6 rolls

14. What is the perimeter of the fifth square in this pattern?

![Diagram of squares with areas 16, 64, 144]

   a. 60 units  
   b. 80 units  
   c. 400 units  
   d. 256 units

15. There are 8 students in Mr. Alvarez’s art class. Throughout the year, each student must pair up with every other student to complete a project. How many different pairs of students are there?
   a. 30 pairs  
   b. 28 pairs  
   c. 66 pairs  
   d. 56 pairs

16. A gardener builds a fence for a square garden that is 10 yd by 10 yd. A fence post is positioned at every corner and every 5 ft. How many fence posts will the gardener need?
   a. 24 posts  
   b. 9 posts  
   c. 28 posts  
   d. 12 posts

17. Aaron, Bob, Charles, and Daniel live in Tulsa, Portland, Miami, and Michigan. Bob is the brother of the man who lives in Portland. Daniel is not Bob’s brother and does not live in Michigan. Either Aaron or Charles lives in Tulsa. Aaron is an only child. Which person lives in which city?
   a. Aaron, Miami; Bob, Michigan; Charles, Tulsa; Daniel, Portland
   b. Aaron, Tulsa; Bob, Michigan; Charles, Portland; Daniel, Miami
   c. Aaron, Portland; Bob, Miami; Charles, Michigan; Daniel, Tulsa
   d. Aaron, Tulsa; Bob, Portland; Charles, Miami; Daniel, Michigan

18. Robert spent \( \frac{3}{5} \) of his money on lunch and \( \frac{1}{6} \) of the money he had left on a snack and some juice. He left the house with $24. How much money did Robert return with?
   a. $8  
   b. $6  
   c. $10  
   d. $12
19. One grade has 60 students.
   - 29 students have cats and 39 have dogs.
   - 16 students have both cats and dogs, but no gerbils.
   - 6 students have only gerbils.
   - 4 students have both dogs and gerbils, but no cats.
   - 3 students have both cats and gerbils, but no dogs.
   - Only 3 students have all three pets.

   How many students have no cats, dogs, or gerbils?
   a. 55 students  
   b. 5 students  
   c. 7 students  
   d. 57 students

20. Which number does not equal \( \frac{27}{30} \)?
   a. 90%  
   b. 0.27  
   c. 0.9  
   d. \( \frac{9}{10} \)

21. Which percent equals 0.69?
   a. 69%  
   b. 610%  
   c. 6.9%  
   d. 6.10%

22. Sales tax in one state is 9%. What is the amount of tax on a $30.95 purchase?
   a. $27.86  
   b. $9.31  
   c. $31.04  
   d. $2.79

23. There are 1,332 people under the age 20 in Pierce City. This represents 14% of the total population. What is the total population?
   a. 18,648 people  
   b. 13,320 people  
   c. 9,664 people  
   d. 9,514 people

Short Answer

Graph the number on a number line.

24. \( \sqrt{11} \)

25. \( \frac{10}{7} \)

Insert \(<\), \(>\), or \(=\) to make the sentence true.

26. \( \frac{1}{3} \) □ \( \frac{2}{5} \)

27. \( \sqrt{3} \) □ \( \sqrt{7} \)

28. 20.28 □ \( \sqrt{256} \)

29. \(-|-16|\) □ \(|5|\)
30. $|18 + 20| \quad | -5 - 2|$

Find the opposite and the reciprocal of the number.

31. 500

32. 3

33. -1.74

34. $4 - \pi$

35. Simplify $| -11 + 3|$. 

Evaluate the expression for the given value of the variable(s).

36. $5a + 5b; \ a = -6, \ b = -5$

37. $\frac{4(3h - 6)}{1 + h}; \ h = -2$

38. $|4b - 4| + |3 - b^2| + 2b^3; \ b = 2$

39. $-x^2 - 4x - 4; \ x = -3$

40. $-2x^3 - x^2 + 5x + 2; \ x = -3$

41. The expression $-16t^2 + 1800$ models the height of an object $t$ seconds after it has been dropped from a height of 1800 feet. Find the height of an object after falling for 4.8 seconds.

Simplify by combining like terms.

42. $4c - 4d + 8c - 3d$

43. $-3(-4y + 3) + 7y$

44. $\frac{x}{2} + \frac{x^2}{3} - \frac{x}{5} - \frac{x^2}{4}$

Solve the equation.

45. $3y + 20 = 3 + 2y$

46. $-5y - 9 = -(y - 1)$

47. $6(x - 0.8) - 0.2(5x - 4) = 6$
48. Find the perimeter of the figure. Simplify the answer.

\[ x + y \\
4x \quad y \]
\[ 2x \quad 2x \]
\[ x \]

Solve the equation or formula for the indicated variable.

49. \[ T = \frac{2U}{E}, \text{ for } U \]

50. The formula for the time a traffic light remains yellow is \( t = \frac{1}{8}s + 1 \), where \( t \) is the time in seconds and \( s \) is the speed limit in miles per hour.
   a. Solve the equation for \( s \).
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Simplify (by hand).

51. \( \frac{1}{8} \cdot \frac{5}{7} \)

52. \( \frac{7}{8} + \frac{1}{6} \)

Divide (by hand).

53. \( \frac{2}{3} \div \frac{3}{6} \)

54. \( \frac{1}{7} \div \frac{9}{21} \)

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63. Find the slope of the line.

64. Solve the proportion $\frac{5}{8} = \frac{h}{40}$.

65. If $\frac{16}{9} = \frac{80}{n} = \frac{p}{27}$, what are $n$ and $p$?
AP Statistics Summer Homework

1. Students need to purchase the paperback version of the book *A Mathematician Reads the Newspaper* by John Allen Paulos.
2. Students need to join the Schoology APBL Statistics-Summer Work by going to Courses -> Join and entering the course code KZS6K-54JN4.
3. The students will be answering discussion posts and creating vocabulary for the book. All the directions for the posts and the vocabulary are in Schoology.
4. Summer Homework is due by the first day of school!!! Students should NOT PROCRASTINATE!
Summer Homework - Senior Project
Grade 12

Step 1: Make sure your summer work is complete and submitted on Google Classroom by July 15th

- Register for the “Senior Project 2018-2019” Google Class using this code: 6nxh5q

You must submit summer homework by deadline or Ploehs/Vogt will make personal contact with you or family prior to school starting. A reduction in your summer homework grade will accompany this teacher contact.

(In other words don’t miss the July 15th Deadline.)

*There will be a possible addendum to this summer homework inviting you to a mandatory summer meeting check-in. Stay tuned!

Step 2: Complete the following preparation/foundational work

- Finalize topic choice. If your topic changes after the day of our first library trip on 5/17, you must email Mr. Ogilby (ogilbyb@cpsboe.k12.oh.us) and Mr. Vogt (vogtios@cpsboe.k12.oh.us) immediately!
  - Topics MAY NOT be changed after July 15th!

- Read and annotate 3-5 scholarly articles related to your topic.

- Read one age-appropriate foundational knowledge book related to your general topic. Your goal is to gain an understanding of the history, basic concepts and background for your general topic.
- Annotate your book (requires purchasing the book) OR complete 10 note taking grid sheets or 30 note cards (for a library book) for the foundational knowledge book you read.

- Start your “Works Consulted” page in APA format. All 3-5 of your articles, your book, and any other sources you gather must be on it in proper APA format.

- Begin considering who could serve as a mentor for the Gators Give Back project that will accompany your paper (on the same topic). Your mentor should be someone who works in the field you are examining or is a clear (preferably credentialed) expert in this field. You will be working with this person over the course of the year.

- **What should I expect my mentor to do?**
  Your mentor should definitely:
  - Be available to communicate with you once or twice per month, at least (in person, on phone, through email, with Skype...)
  - Help you find resources related to your topic
  - Help you develop a research question for your persuasive paper
  - Give you guidance in developing your “Youth for Justice” project including identifying a controversy in your field and helping you set up means to address the controversy you choose to investigate (direct service, advocacy, or philanthropy)
  - Assist you in making professional connections within the field (perhaps through social media)

- Your mentor might (but doesn’t have to):
  - Read your paper and give you feedback
  - Communicate with you more often than once or twice per month
  - Assist you in attending professional conferences or museum exhibits
  - Allow you to job shadow
  - Attend senior project night

**Be prepared to submit the following on July 15th (on Google Classroom)**

- You should have about 1/2 of the book complete (with notes) and at least 1-2 articles completely annotated.
• You will complete a brief “check in” assignment on GC to meet this standard
• You should have a minimum of four sources on your works consulted in APA format. (available on Google Classroom)
• Complete the “Research Question” assignment on GC
• Complete the “Gators Give Back - Mentor” assignment on GC

Be prepared to submit the following on August 19th (the first day of school)

• Show an organized senior project binder.
• Show contact information for your mentor and a confirmation that they have agreed to be your mentor.
• Have book complete (with notes) and 3-5 articles annotated
• Have at least 5 sources listed in APA format on your Works Consulted
• Receive paperwork for setting up fall job shadow intersession experiences.
Spanish 3 and 4 Summer Homework
We will have a quiz when you come back to school!
Do not write in this packet, you need to write your answer on paper.

A. **Spanish Speaking Countries:** write the name of twenty one (21) Spanish countries.

B. **Conversation & Greetings:** In Spanish complete the following exercise about yourself. Ex. Me llamo Marcos.

<table>
<thead>
<tr>
<th>Introducing Yourself</th>
<th>Getting to Know Someone</th>
</tr>
</thead>
<tbody>
<tr>
<td>My name is:</td>
<td>What's your name:</td>
</tr>
<tr>
<td>I am from:</td>
<td>Where are you from:</td>
</tr>
<tr>
<td>I am a student at:</td>
<td>How are you:</td>
</tr>
</tbody>
</table>

**Asking About Someone New:** Don’t forget you have to have question mark at the beginning of the Spanish question.

Who is he/she:  
What’s his/her name:  
Where is he/she from:  
This is (someone’s name):

**Vocabulary Check-Up I:** Translate and make sentences.

*Boy: *She:  
*I am:*  
*Girl:*  
*He:*  
*Student:*  
*Classmate:*  
*Teacher:*  
*Good:*  
*And you:*  
*Bad:*  
*Best Friend:*  

**Vocabulary Check-Up II:** Translate to Spanish.

*Good Morning, Miss:*  
*Good Afternoon, Mrs:*  
*Good Evening, Mr:*  
*See you soon:*  
*See you tomorrow:*  
*See you later:*
**Practice Section for Conversations & Greetings:** Translate to Spanish.

1. Hello. My name is Carlos. I am from KY. Where are you from? How are you?

2. Good Morning. This is my best friend. Her name is Cristina. What’s your name?

3. Good Evening. What is your friend’s name? Where is your friend from? I am from Texas.

4. Hello. Nice to meet you. This is my friend. His name is Eduardo.

**Making Sentences Negative:** Remember, to make a sentence negative with “NO” you need to place the no in front of the verb

1. Yo soy una profesora.  
2. Ella es mi mejor amiga.  
3. Tú eres el estudiante.  
4. Ellos son mis amigos.  
5. Nosotros comemos burritos

**Subject Pronouns:** Change the following subjects to personal (subject) pronouns.

<table>
<thead>
<tr>
<th>Las chicas –</th>
<th>Talking to my sis –</th>
<th>María y Eva –</th>
</tr>
</thead>
<tbody>
<tr>
<td>Myself -</td>
<td>El chico -</td>
<td>You all -</td>
</tr>
<tr>
<td>Mis profesores –</td>
<td>Los chicos –</td>
<td>Talking to my boss - Mi</td>
</tr>
<tr>
<td>Paco -</td>
<td>I –</td>
<td>hija –</td>
</tr>
<tr>
<td>Mi amigo &amp; I –</td>
<td>Juan y María –</td>
<td></td>
</tr>
<tr>
<td>You -</td>
<td>Tú y yo -</td>
<td></td>
</tr>
</tbody>
</table>

**Los números:** Write the following numbers in Spanish.

- 16 – 9 – 31 – 20 –
- 27 – 28 – 15 –
- 5 – 30 – 12 –
- 11 – 22 –

**Date Writing Practice:** Write the following dates in Spanish.

- May 1st –
- January 25th –
- June 10th –
- December 30th –
- August 14th –
Ser Practice: Translate the following to Spanish.

I am – We are – He is –
My friends are - I am – The cars are -
My mom is – You (formal) are – You all are -
My brother is - You & I are - My teacher & I are –
They are – You are –
You are - The students are -

Adjectives Vocabulary Check-Up: Translate the following to English.

Alto –
Pelirrojo -
Bajo –
Atlético -
Gordo –
Perezoso -
Flaco –
Inteligente -
Feo –
Tímido –
Bonito –
Cómico -
Guapo –
Joven -

Moreno –
Viejo -
Rubio –
Grande -
Castaño –
Pequeño –

Sentence Create: Translate to Spanish.
My mom is tall & pretty –
My friends are young & athletic –
I am blonde & tall –
You are smart & redheaded –
My best friend & I are students –

Asking About Other People: Translate the following questions. Don’t forget the question mark at the beginning.

How are the girls:
How are you:
How are the students:
How are the teachers:

How are you (formal):
How is the teacher:
How is the girl:

Age/Birthday Questions & Answers: Translate to Spanish.

When is your birthday:
My birthday is (date):
How old are you:
I am # years old:

When is her birthday:
Her birthday is (date):
How old is she/he:
**Advanced Numbers**: Write out the numbers in Spanish.

91 – 24 -
63 - 78 -
32 – 45 –
89 -
56 –

**Questions Vocabulary Check-Up**: Translate to Spanish.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>What –</td>
<td>From where –</td>
<td></td>
</tr>
<tr>
<td>When –</td>
<td>What/which –</td>
<td></td>
</tr>
<tr>
<td>Where –</td>
<td>How much –</td>
<td></td>
</tr>
</tbody>
</table>

Find the correct question word in Spanish. Re-write the question with the correct question word.

¿__________ te llamas? Respuesta: Me llamo Roberto.
¿__________ años tienes? Respuesta: Tengo # años.
¿__________ eres la chica? Respuesta: Ella es de Colombia.

**Vocabulary Check-Up – Things you can like/dislike**: Translate to Spanish. And write sentences about what you like and you don’t like with the following words.

Books – Vegetables -
Parties – Cars -
Movies – Sports -
Videogames – Food -
Fruit – Music –

**El, La, Los, Las**: Place the correct Definite Articles in front of the following nouns.

Carros – Libros -
Fiestas – Ventana -
Chico – Deportes -
Estudiante – Chicas -
Mochila – Verduras -
Alumna – Profesores –
Profesora – Animales -

**Practice with Gustar**: Translate the following phrases to Spanish.

He likes – My mom likes -
They like – My friends like -
I like – You all like -
You like – They (girls) like -
She likes – The students like -
You (formal) like – The animals like -
We like – Maria likes –
Phrases with Gustar: Change to Spanish.

I like tacos –
You don’t like school –
She likes burritos –
He likes Chicken –
We like blue –
They like Sports –
You all like parties –

Verb Practice: Conjugate the following verbs.

<table>
<thead>
<tr>
<th>Spanish verb</th>
<th>Spanish verb</th>
<th>Spanish verb</th>
<th>Spanish verb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hablar -</td>
<td>Escuchar -</td>
<td>Ir -</td>
<td></td>
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<tr>
<td>Montar -</td>
<td>Alquilar -</td>
<td>Visitar -</td>
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<tr>
<td>Comer -</td>
<td>Correr -</td>
<td>Navegar -</td>
<td></td>
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<tr>
<td>Leer -</td>
<td>Ver -</td>
<td>Estudiar -</td>
<td></td>
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<tr>
<td>Beber -</td>
<td>Hacer -</td>
<td>Jugar -</td>
<td></td>
</tr>
<tr>
<td>Dibujar -</td>
<td>Pasar -</td>
<td>Bailar -</td>
<td></td>
</tr>
<tr>
<td>Nadar -</td>
<td>Escribir -</td>
<td>Trabajar -</td>
<td></td>
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<tr>
<td>Pasear -</td>
<td>Tocar -</td>
<td></td>
<td>Ser -</td>
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<tr>
<td>Practicar -</td>
<td>Cantar -</td>
<td></td>
<td></td>
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<tr>
<td>Patinar -</td>
<td>Descansar -</td>
<td></td>
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</tr>
</tbody>
</table>

Los Deportes (Sports): Change the following words to English.

al basquetbol – al voleibol –
al béisbol – al fútbol –
al fútbol americano – al tenis –
a juegos de mesa –

Querer Verb: Place the Personal (subject) pronoun in front of the following verbs. Then write a sentence.

Queremos – Quieres –
Quieren – Quiere –
Quiero –

Reverse Practice of Querer: Change to Spanish and complete the sentence.

My mom wants – The boy wants –
I want – You all want –
The students want – You (formal) want –
You want –
The teachers want –
**Practice with –IR Verbs:** Write the sentence in Spanish with the correct conjugation of each verb.

You live (vivir):  
They write (escribir):  
He leaves (salir):  
I live (vivir):  
We write (escribir):  
You all leave (salir):

**Vocabulary Check Up – School Supplies:** Translate to Spanish.

Paper –  
Ruler –  
Notebook –  
Folder –  
Pencils –  
Classes –  
Computer –  
Shoes –  
Clothing –  
School –

**Practicing with “A”:** Place the singular indefinite article in front of each word. Then translate.

Carpeta –  
Cuaderno –  
Mochila –  
Zapato –  
Computadora –

**Jugar Verb:** Make sentences with the verb jugar, don’t forget to place the personal (subject) pronoun in front of the verb.

Juego -  
Juegas -  
Juega -  
Jugamos -  
Juegan –

**Reverse Practice of Jugar:** Translate.

My brother plays –  
I play –  
We play –  
She plays –  
My parents play –  
You play –

**Jugar with Sports:** Translate to Spanish.

My friend plays basketball –  
They play baseball –  
I play football –  
You play tennis –  
We play board games –
Ir – to go: Translate to Spanish.

I go –
You go –
He goes –
She goes –
You formal go –

We go –
They go –
You all go –

Reverse Practice of Ir: Translate to English.

➢ Ella va –
➢ Mis padres van –
➢ Yo voy –
➢ Tú vas –
➢ Vamos –
➢ Ustedes van –
➢ Mi mejor amiga va –
➢ Roberto va –

Vocabulary Checkup – Places: Translate to Spanish.

To the class –
To the school –
To the dance –
To the gym –
To the church –
To the pool –
To the beach –
To the bathroom –
To the concert –
To the library –
To the cafetería –

Phrases with Ir & Places : Translate to Spanish.

➢ We are going to the beach –
➢ I go to the school –
➢ You are going to the church –
➢ They are going to the gym –
➢ Roberto goes to the pool –
➢ She goes to the dance –

Estar Verb: Translate to Spanish.

➢ My sister is –
➢ We are –
➢ I am –
➢ You all are –
➢ The teachers are –
➢ Cristina is –
➢ You are –

Vocabulary Check up – la familia: translate to Spanish.

➢ Sister –
➢ Brother –
➢ Grandma –
➢ Mom –
➢ Uncle –
➢ Niece –
➢ Dad –
➢ Grandpa –
➢ Aunt –
➢ Cousin –
➢ Son –
➢ Daughter –
➢ Nephew –
Venir Sentences: Translate to Spanish.

- We come to the party –
- I come to the library –
- They come to the class –

- You come to the gym –
- You formal come to the church –

El tiempo (weather) Translate to Spanish.

- It’s cold –
- It’s hot –
- It’s sunny –
- It’s raining –
- It’s snowing –
- It’s windy –

1. Encierra en un círculo la letra de la respuesta más apropiada.

1. Manolo: Margarita, ¿eres jugadora de básquetbol?
   b. Son unos jugadores del equipo de básquetbol.
   c. ¡Nosotros también!
   d. ¿Qué pasa, Manolo?

2. Margarita: Carla, te presento a Manolo.
   b. Mucho gusto, Manolo.
   c. Hasta luego.
   d. Yo también.

3. Manolo: Carla, ¿quién es el hombre de la camisa azul?
   Carla: a. Son los jugadores del equipo de fútbol.
   b. ¡Yo soy una aficionada al básquetbol!
   c. Me llamas Carla.
   d. Es el director de la escuela, el señor White.

4. Manolo: ¿Y quiénes son las personas allí?
   a. Es la señorita Romero.
   b. Es el señor Gómez.
   c. Son unos jugadores del equipo de básquetbol.
   d. Ella es una aficionada al fútbol.
Selecciona una palabra o frase para completar la conversación. No se repiten frases.

| aficionada | jugadora | mucho gusto |
| qué pasa   | te presento |

Sandra: Hola, Marielena.
Marielena: (1) ____________________________, Sandra?
Sandra: Marielena, (2) ____________________________ a Pati. Es una estudiante nueva de Argentina.
Marielena: (3) ____________________________, Pati.
Pati: Marielena, ¿conoces también a Carmela?
Marielena: Sí, la conozco. Ella es (4) ____________________________, de básketbol en nuestro equipo. La conozco bien.
Pati: (5) ¡Yo soy una ____________________________ al básketbol!
Marielena: ¡Yo también!

¿A quién admiras tú? Completa las oraciones con un, unos, una o unas.

1. ____________ mujer que admiro mucho es mi hermana mayor. Ella es
2. ____________ persona simpática y trabajadora y siempre tiene
3. ____________ consejos buenos para mí. ¿Hay 4. ____________ hombre o 5. ____________ mujer a quien admiras mucho? Quizás es
6. ____________ maestro de tu escuela, 7. ____________ actriz famosa o 8. ____________ miembro de tu familia.

Lee sobre la clase de español de Blanca. Llena los espacios en blanco con el, los, la, o las.

Me llamo Blanca y soy estudiante de español. 1. ____________ maestra de mi clase de español se llama la señora Pérez. Ella es también 2. ____________ directora del departamento de idiomas en nuestra escuela. 3. ____________ texto que usamos es muy bueno y todos 4. ____________ estudiantes están aprendiendo mucho. Cada día empezamos con practicar 5. ____________ vocabulario y entonces aprendemos temas nuevos de 6. ____________ gramática. Todos 7. ____________ videos que miramos y 8. ____________ lecturas que leemos son en español. En 9. ____________ futuro espero conocer bien 10. ____________ lengua.
2 Completa el párrafo con la forma correcta de ser.


2 Los opuestos. Las siguientes oraciones son falsas. Escribe nuevas oraciones para describir los dibujos.

1. Alejandra es muy baja. _______________

2. La señora Lobos es una mujer atlética. _______________

3. David es muy cómico. _______________

4. El maestro es desorganizado. _______________

5. Daniel es perezoso. _______________

1 Conecta con una línea los artículos, los sustantivos y los adjetivos que corresponden.

<table>
<thead>
<tr>
<th>artículos</th>
<th>sustantivos</th>
<th>adjetivos</th>
</tr>
</thead>
<tbody>
<tr>
<td>el</td>
<td>jugadores</td>
<td>estudioso</td>
</tr>
<tr>
<td>las</td>
<td>maestra</td>
<td>trabajadora</td>
</tr>
<tr>
<td>los</td>
<td>alumno</td>
<td>serias</td>
</tr>
<tr>
<td>la</td>
<td>amigas</td>
<td>atléticos</td>
</tr>
</tbody>
</table>
2 Completa las oraciones con la forma correcta del adjetivo subrayado.

**Modelo:** Yo soy joven y mis hermanitos también son jóvenes.

1. Yo soy trabajador y mamá también es muy ___________.
2. Él es inteligente y sus maestros también son muy ___________.
3. Los directores son cómicos y Elena también es muy ___________.
4. Tú eres atlética y los jugadores también son muy ___________.
5. Ustedes son estudiosos y nosotros también somos muy ___________.
6. La chica es perezosa y los chicos también son muy ___________.

1 Completa el párrafo con las formas correctas de tener.

Me llamo Daniel y 1. ___________ dieciséis años. Vivo en Florida con mi madre y mis abuelos. Nosotros 2. ___________ una casa en un barrio muy bonito. Mi hermano menor es Carlitos. Él 3. ___________ trece años. Yo 4. ___________ pelo castaño y ojos azules. Mis abuelos 5. ___________ pelo blanco y ojos azules. Soy muy estudioso y siempre 6. ___________ mucha tarea que hacer. Mis abuelos son de España y a veces ellos 7. ___________ que ayudarme con la tarea de español. ¿ 8. ___________ tú mucha tarea en la clase de español?

3 Contesta las siguientes preguntas con oraciones completas.

1. ¿Cuál es tu comida favorita?

____________________________________________________________________

2. ¿Qué comida no te gusta preparar?

____________________________________________________________________

3. ¿Qué comes en un almuerzo típico?

____________________________________________________________________

4. ¿Te gusta comer en casa o comer en un restaurante?

____________________________________________________________________

5. ¿Prefieres las frutas o las verduras?

____________________________________________________________________

6. ¿Qué te gusta más, ir de compras o practicar deportes?

____________________________________________________________________
1. Escribe el nombre de la comida debajo del dibujo.

1. __________________________
2. __________________________
3. __________________________
4. __________________________
5. __________________________
6. __________________________

2. Completa el párrafo con la forma correcta del verbo *gustar*.


3. Empareja el lugar con la actividad más lógica para hacer allí.

1. ___ nadar  a. la fiesta en casa del amigo
2. ___ estudiar la tarea  b. la tienda
3. ___ comer almuerzo  c. la clase
4. ___ ver una obra de Shakespeare  d. el teatro
5. ___ enseñar matemáticas  e. la cafetería
6. ___ salir a comer  f. la piscina
7. ___ bailar  g. la biblioteca
8. ___ comprar zapatos  h. el restaurante
1. Completa el párrafo con la forma correcta del verbo ir:
   Siempre planeamos un cumpleaños muy especial para mi tía Susana. La mañana de su cumpleaños, mi mamá 1. _____________ a su apartamento y las dos
   2. _____________ a un café cerca para tomar café y charlar. Entonces ellas
   3. _____________ al centro porque les gusta 4. _____________ de compras. Mientras ellas 5. _____________ de compras, yo 6. _____________ a la pastelería para comprar una rica torta. Todos nos reunimos a la siete en punto y
   7. _____________ directamente a un restaurante elegante para cenar. Y como a mi tía le gusta tanto 8. _____________ al cine, nosotros 9. _____________ al Moviemundo después de cenar para ver una película. ¿Qué 10. _____________ a hacer este año para tu cumpleaños?

2. ¿Qué tienen? Usa tener + sustantivo para describir cómo están las personas.

   1. 
   2. 
   3. 
   4. 
   5. 

3. Completa las oraciones con las actividades lógicas.

   leer un libro    estudiar    escuchar música
   beber un refresco    almorzar    practicar deportes
   mirar la televisión    escribir correos electrónicos

   **Modelo:** Estoy muy perezoso hoy. Pienso __mirar la televisión__ todo el día.

   1. Para sacar buenas notas, tienes que _______________ mucho.
   2. Soledad está muy tranquila hoy, piensa en _______________.
   3. ¿Tengo hambre! ¿Cuándo vamos a _______________?
   4. Siempre estamos cansados después de _______________.
   5. ¿Tienes sed? Tú debes _______________.
   6. ¿Van al concierto este fin de semana? —¡Sí! Nos gusta mucho _______________.

Completa el párrafo con las formas correctas de los verbos regulares.

Cada día yo me 1. ___________ (levantar) a las seis y media.  
2. ___________ (comer) el desayuno, me pongo la ropa y me 3. ___________ (cepillar) los dientes. Como mi escuela queda tan cerca a mi casa, mis hermanos y yo 4. ___________ (caminar) allí. Cuando nosotros 5. ___________ (llegar), 6. ___________ (hablar) con los amigos antes de empezar las clases. Mi maestro de matemáticas es el señor Ezcurra, y yo 7. ___________ (recibir) notas buenas en su clase. En mi clase de literatura, los estudiantes 8. ___________ (escribir) composiciones y 9. ___________ (leer) novelas. Mi clase favorita es la de arte. En esta clase yo 10. ___________ (dibujar), 11. ___________ (pintar) y 12. ___________ (aprender) sobre artistas importantes.

Usa palabras de cada lista para escribir un párrafo de seis oraciones sobre lo que haces en un día típico.

<table>
<thead>
<tr>
<th>ACTIVIDADES</th>
<th>LUGARES Y COSAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>beber como caminar</td>
<td>almuerzo amigos</td>
</tr>
<tr>
<td>hablar hacer leer</td>
<td>cine deportes desayuno</td>
</tr>
<tr>
<td>comer escribir escuchar estudiar</td>
<td>casa escuela centro comercial</td>
</tr>
<tr>
<td>leer mirar practicar</td>
<td>programa tarea televisión teléfono</td>
</tr>
</tbody>
</table>