Dear newest 8th graders and 8th grade families,

Congratulations on another successful school year! I hope you have a wonderful and relaxing summer. That being said, it is very important that you continue to work on your reading comprehension and writing skills during the time off from school. Please see below for the summer assignment for those entering the 8th grade.

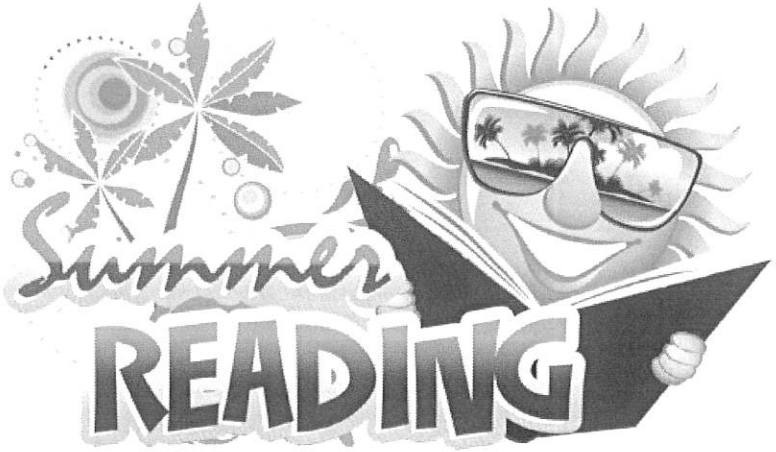
1. 5 reading I Ready lessons must be completed by 8/1/2025

2. Read the novel *The Hunger Games* by Suzanne Collins. Here is a link for the book on Amazon: https://www.amazon.com/Hunger-Games-Book-1/dp/0439023521/ref=tmm_pap_swatch_0

3. Complete the chart located at the end of the letter to help you summarize the novel. (Students can copy and paste the chart onto their own Google doc.)

Please note that the students will be given a quiz on the book, *The Hunger Games*, the first full week we are back at school. I am looking forward to working with all of you as we dive into this next chapter. Have a wonderful summer!

Sincerely,
Your 8th Grade ELA Teacher
Our Lady of Guadalupe Catholic School



Estimados alumnos y familias de 8.º grado:

¡Felicitaciones por otro año escolar exitoso! Les deseo un verano maravilloso y relajante. Dicho esto, es muy importante que sigan trabajando en su comprensión lectora y escritura durante el tiempo libre. A continuación, encontrarán la tarea de verano para quienes ingresan a 8.º grado.

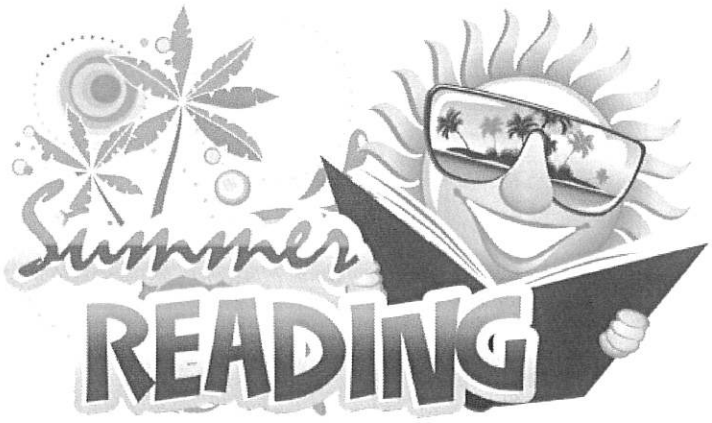
1. 5 lecciones de lectura I-Ready deben completarse antes del 1 de agosto de 2025

2. Lee la novela "The Hunger Games" de Suzanne Collins. Aquí tienen el enlace al libro en Amazon:https://www.amazon.com/Hunger-Games-Book-1/dp/0439023521/ref=tmm_pap_swatch_0

3. Completa el cuadro al final de la carta para ayudarte a resumir la novela. (Los estudiantes pueden copiar y pegar el cuadro en su propio documento de Google).

Tengan en cuenta que los estudiantes tendrán un examen sobre el libro "The Hunger Games" durante la primera semana completa de regreso a clases. Tengo muchas ganas de trabajar con todos ustedes mientras profundizamos en este nuevo capítulo. ¡Que tengan un verano maravilloso!

Atentamente,
Su profesor de Lengua y Literatura Inglesas de 8.º grado
Escuela Católica Nuestra Señora de Guadalupe



The Hunger Games Review

Characters Who are the main characters? List the main characters in the next column. Include a 1-2 sentence explanation of the main characters.	
Setting When and where does this story take place? Provide a 3-4 sentence explanation of where the story took place and explain what was going on at that time.	
Key Events List 5 events that you thought were important in telling the story. Provide a 1-2 sentence summary of the key events that you chose.	
Summary Write a 7-10 sentence summary of the book. Provide information about the key events and themes found in the book.	

Dear Rising 8th Grade Students and Families,

Congratulations on successfully completing 7th grade! I am so proud of all your hard work and growth this year. As you move up into 8th grade, I am excited to welcome you to your last year of middle school.

To help you stay sharp and start the year strong, there are a couple of summer expectations for math:

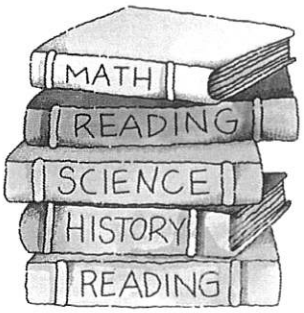
1. Each student will receive a review packet to complete over the summer. This packet is designed to reinforce key concepts learned in 7th grade and prepare you for the material we'll cover in 8th grade. The completed packet will be **collected and graded on the first day of school**, so be sure to take your time and do your best.
2. In addition to the packet, students must complete **six (6) i-Ready math lessons** by **August 1st.** These lessons will help keep your skills fresh and support your continued learning. Make sure to pace yourself and avoid leaving them all until the last minute!

These assignments will be graded as the first assignment of the new school year. Please encourage your child to work steadily throughout the summer. This preparation will make a big difference in ensuring a confident and successful start to the school year.

Have a safe, restful, and fun summer. I look forward to seeing you in September, ready to take on 8th grade with energy and enthusiasm!

Warm regards,

Your 8th Grade Math Teacher
Our Lady of Guadalupe Catholic School



Estimados estudiantes y familias que ingresan a 8.º grado:

¡Felicitaciones por completar con éxito 7.º grado! Estoy muy orgulloso de todo su esfuerzo y crecimiento este año. Al pasar a 8.º grado, me complace darles la bienvenida a su último año de secundaria.

Para ayudarlos a mantenerse en forma y comenzar el año con fuerza, tenemos un par de expectativas para el verano en matemáticas:

1. Cada estudiante recibirá un paquete de repaso para completar durante el verano. Este paquete está diseñado para reforzar los conceptos importantes aprendidos en 7.º grado y prepararlos para el material que cubriremos en 8.º grado. El paquete completo se recogerá y calificará el primer día de clases, así que asegúrese de tomarse su tiempo y esforzarse al máximo.
2. Además del paquete, los estudiantes deben completar seis (6) lecciones de matemáticas de i-Ready **antes del 1 de agosto**. Estas lecciones les ayudarán a mantener sus habilidades actualizadas y a apoyar su aprendizaje continuo. ¡Asegúrense de ir a su propio ritmo y no dejarlas todas para el último momento!

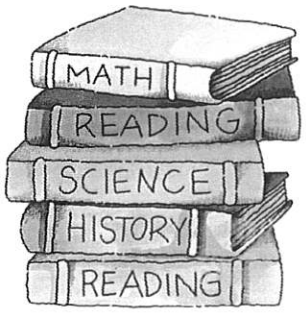
Estas tareas se calificarán como la primera tarea del nuevo año escolar. Por favor, anime a su hijo/a a trabajar con constancia durante el verano. Esta preparación marcará una gran diferencia para asegurar un comienzo de año escolar seguro y exitoso.

¡Que tengan un verano seguro, tranquilo y divertido! ¡Espero verlos en septiembre, listos para comenzar el 8.º grado con energía y entusiasmo!

Atentamente,

Su profesor/a de matemáticas de 8.º grado

Escuela Católica Nuestra Señora de Guadalupe



Decimal Operations

1. $9.372 + 3.029$

2. $11.322 - 3.825$

3. $18.23 - 5.409 + 2.55$

4. $2.35 * 7.11$

5. $1.023 * 3.5$

6. $23.25 \div 0.7$

7. $0.54723 \div 2$

8. $8.752 \div 0.12$

For #9-12 simplify the fraction by finding common factors & eliminating them.

9. $\frac{4}{10}$

10. $\frac{24}{40}$

11. $\frac{81}{27}$

12. $\frac{9}{21}$

For #13-16, simplify each answer as much as possible by cross cancelling factors.

13. $\frac{4}{5} * \frac{10}{18}$

14. $\frac{8}{9} * \frac{3}{4} * \frac{10}{6} * \frac{12}{15}$

15. $\frac{27}{38} \div \frac{3}{7}$

16. $\frac{35}{38} \div \frac{5}{19}$

Order of Operations

Simplify each expression using PEMDAS!

1) $2 * 6 \div 4 + 7 - 8 * 3 + 77 \div 11$

2) $72 \div 12 + 2^2 - 5 * 2 + 3 + 2 * (6 - 5)$

3) $7 * (12 - 5) + 9 \div (-3) + 7 * (-2)$

4) $13 + 2x - 5 - 8x + 7 * (4x + 1)$

5) $-5x - 8 + (8 \div 2) + 7 * 6$

6) $3x - 6 + 4 * 8 - 3x + 2y - 90 \div 5$

Absolute Values & Negative Integer Operations

Simplify each statement as much as possible.

1. $|-4|$

2. $-|-5|$

3. $(-3)^2$

4. -5^3

5. $-4 * 5$

6. $-7 + 3$

7. $-8 * -7$

8. $-28 \div -7$

9. $-42 + 27$

10. $-22 - (-8)$

11. $\frac{-42}{7}$

12. $37 - 83$

13. $-42 \div 2 + (7 * 3) + 8 - (-5) - 4 * 2$

14. $|-2| + 8^2 - (-3)^2 + 7 * 2 - 22 \div 2$

15. $|-4^3| - 8 * 7 + (-(-(-2) + \left(-\frac{48}{6}\right) + (-3) * (-2)$

Operations with Fractions

Reduce answers as much possible by finding common factors.

#1. $\frac{2}{5}+\frac{3}{7}$

#2. $\frac{4}{28}-\frac{7}{9}$

#3. $3\frac{1}{3}+4\frac{7}{8}$

#4. $-\frac{7}{25}-\frac{8}{15}$

#5. $\frac{2}{25}*\frac{15}{22}$

#6. $\frac{27}{31}*-\frac{62}{81}$

#7. $-\frac{10}{21}*-\frac{49}{35}$

#8. $4\frac{1}{3}*5\frac{2}{5}$

#9. $-\frac{42}{55}\div\frac{28}{11}$

#10. $\frac{25}{28}\div\frac{15}{32}$

#11. $-\frac{8}{5}\div\frac{6}{35}$

#12. $\frac{125}{128}\div\frac{65}{72}$

13. You have $8\frac{4}{5}$ total cups of lemonade, and you want to share it with your friends. Each friend gets $\frac{1}{10}$ of a cup to drink.
How many friends do you have?

14. You have $10\frac{2}{7}$ ounces of candle wax to make an army of tiny, beautiful-smelling candles. You are able to make a total of 12 candles from the wax. How much wax is in each candle? (Hint: write an equation first.)

Exponents & Expressions

For #1-4, rewrite as multiplication problems, then solve.

#1. $(-5)^4$ #2. $\left(\frac{1}{2}\right)^3$ #3. -4^2 #4. $\left(-\frac{2}{3}\right)^3$

For #5-7, rewrite as exponents, and solve.

#5. $2 * 2 * 2$ #6. $(\frac{1}{4} * \frac{1}{4})$ #7. $-1 * -1 * -1 * -1 * -1 * -1 * -1$

Simplify the expression by combining terms.

#8. $-2(x-3)+4x$ #9. $4x-1(6+2x)$ #10. $4x-3+6z+7-10x$

#11. $(6a+3x)-(4a-7x)$ #12. $(-4y-8x)+(7y+10x)$

#13. $(5x-2a)-(-4x+7a)$ #14. $(15x-3y)+(-12x-y)$

Find the greatest common factor of the following terms.

#15. 84, 128 #16. $147x$, $105x^2$ #17. 216, 288, 72

Solving Equations

Solve each equation for the variable.

#1. $2x + 6 = 8$

#2. $-4(x - 2) = 16$

#3. $\frac{x+7}{3} = 12$

#4. $\frac{5x-3}{2} = 11$

#5. $-3x - 7 = x + 9$

#6. $4(2x + 6) = 16x + 8$

#7. $2(x - 4) = 22$

#8. $-5x = 35$

#9. $\frac{x}{4} + 3 = 7$

#10. $-\frac{2x}{5} = 10$

#11. $-\frac{x-5}{2} = 11$

#12. $\frac{2x+1}{2} = 3x$

Factor out any common factors from each expression.

#13. $81x + 27$

#14. $3x - 9$

#15 $-48 - 64x$

Inequalities

For #1-2, write a sentence that represents the inequality.

#1. $x < 7$

#2. $x \geq -4$

For #3-4, tell if the given number makes the inequality TRUE or FALSE.

#3. $2x < 10, \text{value} = -3$

#4. $\frac{x+7}{6} \geq -5, value = 5$

Solve the inequalities, showing each step. Then graph the solutions.

#5. $x + 7 \leq -2$

#6. $\frac{3}{5}x > 9$

#7. $7 - 2x \geq 5$

#8. $-x - 8 < 3$

#9. $-\frac{5}{6}x \geq 15$

#10. $2x - 5 > 3x + 6$

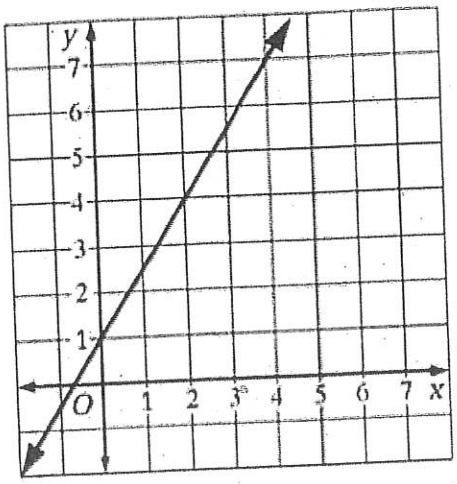
#11. $3x - 8 < 3x + 7$

#12. $3x + 7 > 4$

#13. $-2x + 7 < 9x - 2$

Coordinate Plane & Unit Rates

For #1-3, use the graph given to answer the questions.



#1. When $x = -2$, what is Y?

#2. When $y = 4$, what is X?

#3. When $x = 4$, what is Y?

For #4-6, use the equation $y = -3x + 2$ to find the value of y at the given x values.

#4. $x = 3$

#5. $x = -\frac{5}{3}$

#6. $x = 0$

#7. $x = -4$

For #7-10, write the ratio as a fraction in its <u>simplest</u> form (reduce!).

#8. 56 to 77

#9. 144 to 84

#10. 15 to 45

#11. 36 : 108

Find the unit rate [by making the denominator 1].

#12. $\frac{28\ megabytes}{5\ seconds}$

#13. $\frac{45\ cups\ of\ coffee}{4\ days}$

#14. $\frac{28\ detentions}{9\ days}$

Proportions & Slope

For #1-3, tell if the statements are proportional. Show your work.

1. $\frac{3}{7} = \frac{81}{189}$

2. $\frac{22}{8} = \frac{152}{56}$

3. $\frac{5}{6} = \frac{70}{82}$

For #4-6, write a proportion for the situation, and then solve.

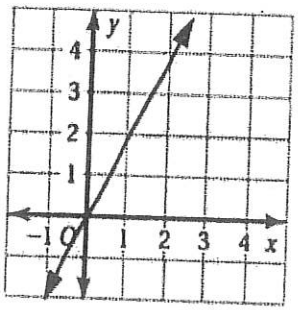
4. A test is worth 36 total points and you want to get an 87% on it. How many points do you need to score?

5. You pay $4 for 7 pounds of chocolate frogs. How much would you pay for 11 pounds of chocolate frogs?

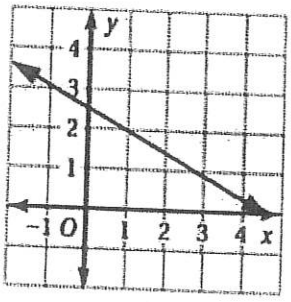
6. The ratio of chocolate to vanilla ice cream is 3 scoops to 7 scoops. If there are 147 scoops of vanilla ice cream, how many total scoops are there?

For #7-8, find the slopes of the graphs provided.

7.



8.



For #9-11, use the points given to find the slope between them. (Answers might be fractions!)

9. $(-3, 4)$ *and* $(-1, -2)$

10. $(7, 9)$ *and* $(2, -1)$

11. $(-21, 9)$ *and* $(19, -4)$

Decimals, Fractions, Percents

1. Write 0.42 as a fraction.

2. Write $\frac{7}{35}$ as a decimal.

3. Write 74% as a fraction.

4. Write 0.5732 as a percent.

5. Write $\frac{3}{11}$ as a percent.

6. Write $\frac{6}{25}$ as a percent.

For #7-12, turn the sentences into equations, and solve.

7. What number is 37% of 7?

8. 22% of 45 is what number?

9. 7 is 37% of what number?

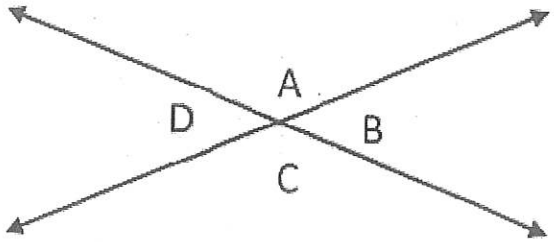
10. What is 212% of 3?

11. 0.15% of 3,034 is what number?

12. 6 is 8% of what number?

13. A company makes a table for $15 and sells it for $19. What is the percentage of markup?

ANGLES



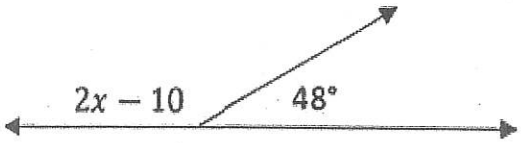
1. List the pairs of adjacent angles.
2. List the pairs of vertical (opposite) angles.

3. Angle Z and Angle X on intersecting lines are vertical angles. If Angle Z is 63°, what is Angle X?

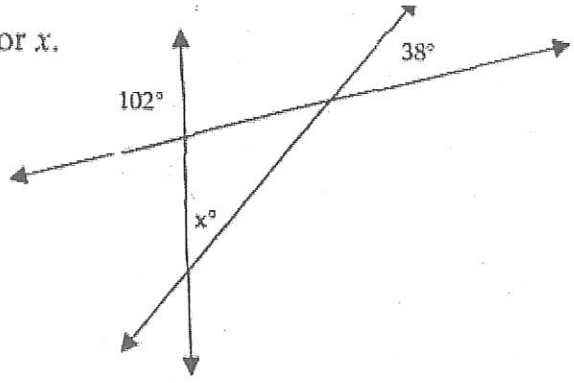
4. Angle K and Angle J on intersecting lines are adjacent angles. If Angle K is 105°, what is angle J?

5. The total sum of **complementary** angles is _____.
6. The total sum of **supplementary** angles is _____.
7. Angle B and Angle C are **complementary**. If Angle B is 43°, what is Angle C?

8. Solve for x.



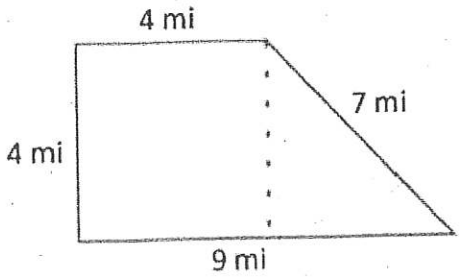
9. Solve for x.



Area, Perimeter, and Circumference

1. A circle has a radius of 3 inches. A) What is the diameter? B) What is the area of the circle? C) What is the circumference of the circle?

2. A circle has a diameter of 8 meters. A) What is the radius? B) What is the area of the circle? C) What is the circumference of the circle?



3. What is the perimeter of the figure to the right?

4. What is the area of the figure to the right?

5. What is the area of a parallelogram with a base of 9 inches and a height of 7.62 centimeters?

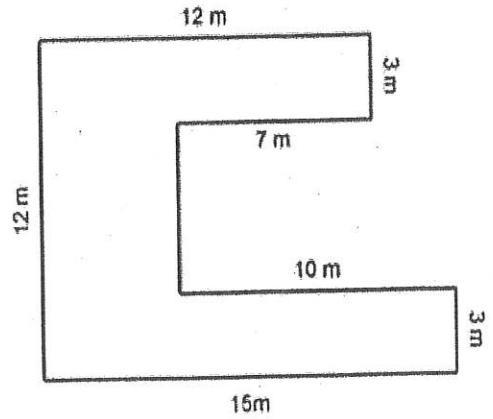
6. The area of a rectangle is 58 in^2. The base is 8 inches long. What is the height?

7. A circle has a circumference of 14π inches. What is the diameter of the circle?

8. A triangle has an area of 160 mi^2, and a base of 20 miles. What is the height?

9. What is the area of a triangle that has a base of 8 meters and a height of 7 meters?

10. A circle has an area of 49π m^2. What is the radius of the circle?

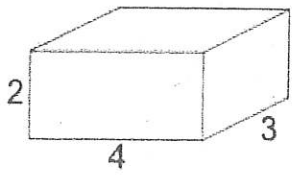


11. Find the perimeter of the shape to the left.

12. Find the area of the shape to the left.

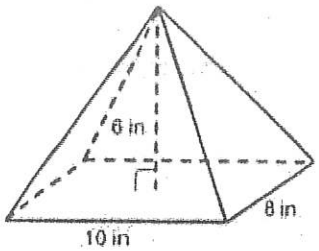
Surface Area and Volume

1. A giant lobster tank is a **cylinder**. The base has a radius of 3 miles. It is 10 miles tall.
A) What is the area of the base? B) What is the tank's volume? C) What is the surface area?

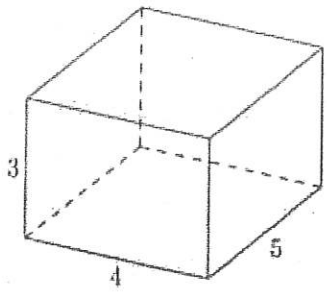


2. The shape to the left is measured in millimeters.
A) What is the area of the base? B) Volume? C) Surface area?

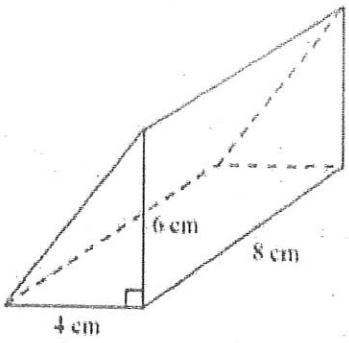
3. Find the volume.



4. Find the volume.



5. Find the volume.



6. A cylinder has a volume of $80\pi\ in^2$. The radius is 4 inches! What is the cylinder's height?

7. A right **rectangular** prism has a surface area of 180 m^2. The perimeter of the base is 28 meters. The width of the base is 6 m and the length of the base is 8 m. What is the height of the prism?

Probability

List A) the amount of <u>events</u> in each experiment, and B) the total amount of outcomes.

1. Rolling a 6-sided die 3 times
2. Flipping a coin 4 times
3. Filling 3 different positions with 7 different people
4. Making one meal from 3 appetizers, 5 main courses, 4 desserts, and 3 drinks

For 5-6, find the <u>theoretical</u> probability of the event.

5. Rolling two six-sided dice and getting a total of 7
6. Flipping 3 two-sided coins and getting two heads and a tail

7. You have a bag of lizards. There are 3 green lizards, 5 red lizards, 4 orange lizards, 6 white lizards, and 2 black lizards.

A) What is the theoretical probability of drawing a green lizard?

B) What is the theoretical probability of drawing an orange OR a white lizard?

8. You reach into the bag and draw 10 lizards, replacing them every time. You draw 4 red lizards, 2 white lizards, and 4 green lizards.

A) What is the **experimental** probability of drawing a green lizard?

B) Which is bigger, the theoretical or experimental probability of drawing a green lizard?

9. You're making cookies for a bake sale. The probability of frosting a good cookie is $\frac{3}{7}$. You frost 812 cookies. How many good cookies do you manage to frost?

10. You're harvesting Brussel sprouts. The chance of finding a yummy Brussel sprout is $\frac{2}{27}$. If you find 48 yummy Brussel sprouts, what is the total amount of Brussel sprouts?