

SUMMER MATH PACKET FOR STUDENTS ENTERING GRADES 4 - 8 IN SEPTEMBER 2020

June 2020

Dear Parent/Guardian:

To enhance, enrich, and keep all students knowledge of math skills taught over the past year fresh in their minds, we are requiring that ALL students complete the **Math Practice** sections for their grade level. Your child will be working in the grade level they just completed for the 2019-2020 school year using the Study Island on-line mathematics program. (i.e. 4th grade works on the 4th grade sections). Each student should complete the work no later than September 11, 2020. Teachers will review their scores and use as a guide for any remediation. Please encourage your child to use their math skills in every day activities (i.e. go to the store with your parents and use mental math to estimate the total cost of your purchases).

If you have any questions, you may call the school (732-222-6139) during the summer.

DIRECTIONS FOR SUMMER MATH GRADES 4 TO 8

1. A student must log into Study Island using their present username and password to complete their summer work. (Log-in information is also available in the main office). Click on "Study Island For Schools".
2. Once logged in, the students will see 2 benchmarks. Click on each benchmark and complete.
3. Students do not have to complete the practice sections in one session. They can do as much as they want, press Save, and then resume once they log back in.

Have a wonderful summer vacation! You will certainly be better prepared for school when September arrives.

PARCC Math Benchmark 1

Students Entering Grade 8

Question 1 .

Directions: Drag the tiles to the correct boxes to complete the pairs.

Let $A = 2$, $B = \frac{2}{5}$, and $C = \frac{3}{8}$. Find the value of each expression below.

$1 \frac{39}{40}$

$1 \frac{7}{40}$

$2 \frac{1}{40}$

$1 \frac{3}{20}$

$A + B - C$	←→	
$A \times B + C$	←→	
$A - B + C$	←→	
$A \times C + B$	←→	

Question 2 .

The principal of Brookefield Middle School maintains order by appointing 2 hall monitors for every corridor, and 4 teachers for every 12 hall monitors. If the school has 24 corridors, how many teachers would be required to maintain order in the school?

- A. 16
- B. 18
- C. 14
- D. 12

Question 3 .

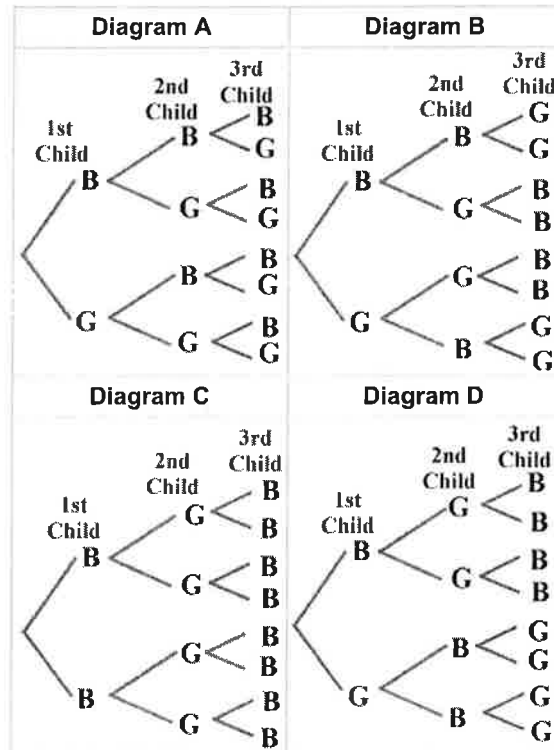
A length of a rope is $3 \frac{1}{4}$ feet long. For a project, Kendra needs two-thirds of the length of the rope. How long is the section of rope that Kendra needs for the project?

- A. $2 \frac{7}{12}$ feet
- B. $2 \frac{11}{12}$ feet
- C. $1 \frac{1}{12}$ feet
- D. $2 \frac{1}{6}$ feet

Question 4 .

Mr. and Mrs. Toscano want to have three children. They drew a tree diagram showing all possible combinations of boys (B) and girls (G).

Which tree diagram did Mr. and Mrs. Toscano draw?



- A. Diagram A
- B. Diagram B
- C. Diagram C
- D. Diagram D

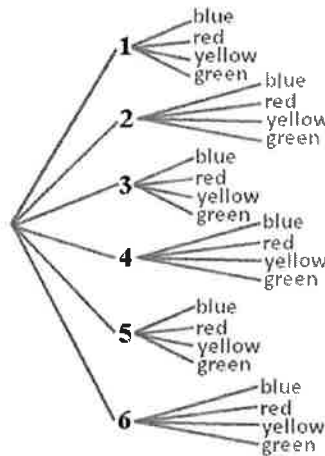
Question 5 .

Logan rode his bike $2\frac{1}{2}$ miles in 10 minutes. At this pace, how far can Logan ride his bike in an hour?

- A. 15 miles
- B. 4 miles
- C. 10 miles
- D. 25 miles

Question 6 .

Mrs. Greenhaus has a six-sided number cube and a spinner. The number cube has the numbers 1 through 6 on its faces, and the spinner has four equal regions with blue, red, yellow, and green each in a different region. This tree diagram represents the outcomes of rolling the number cube and then spinning the spinner.



What is the probability of rolling an even number and landing on blue?

- A. $\frac{1}{80}$
- B. $\frac{1}{4}$
- C. $\frac{1}{20}$
- D. $\frac{7}{80}$

Question 7 .

John has a bag that contains green, red, and blue marbles. He performed 50 trials of randomly drawing a marble and replacing it in the bag. He then recorded the following data.

Color	Frequency	Experimental Probability
Red	9	0.18
Green	14	0.28
Blue	27	0.54

Based on the data in the table, what is a good prediction of how many times a green marble will be drawn in 1,000 trials?

- A. 540 times
- B. 280 times
- C. 140 times
- D. 90 times

Question 8 .

A survey was conducted on the average monthly water consumption of 60 randomly selected households in two different cities. Thirty of the households in Seaside were surveyed, and 30 households in Drier Park were surveyed.

The following statistical information, in thousands of gallons, was calculated from that survey. Based on these samples, what generalization can be made?

	Seaside	Drier Park
First Quartile	1.9	3.1
Second Quartile (Median)	3.2	4.8
Third Quartile	4.5	5.3

- A. At least 50 percent of the households in both cities consume less than 4,000 gallons of water on average.
- B. At least 50 percent of the households in Drier Park consume more than 5,000 gallons of water on average.
- C. At least 25 percent of the households in Seaside consume less than 2,000 gallons of water on average.
- D. Not enough information is provided to draw any of these conclusions.

Question 9 .

Directions: Select all the correct answers.

Liam randomly picked the number of points scored by one team during 16 different games. Then, he made the following table.

Men's				Women's			
77	82	119	86	75	60	91	48
75	60	91	48	63	66	71	68
83	109	67	59	73	86	64	81
107	100	77	81	86	50	83	74

Which of the following are *strongly* supported by the data?

- Most men's teams scored less than 100 points.
- Few men's teams scored less than 81 points.
- Most teams scored between 70 and 90 points.
- Few women's teams scored more than 85 points.
- Most women's teams scored more than 70 points.

Question 10 .

Directions: Select all the correct answers.

$$-\frac{4}{5} \div -\frac{1}{5}$$

Which scenarios match the expression above?

Gina is measuring the distances of cities in South America from the equator and labeling distances above the equator positive and below the equator negative. On her map, Caracas is $\frac{4}{5}$ of a foot below the equator and Lima is $\frac{1}{5}$ of a foot below the equator. How many times farther below the equator is Caracas than Lima?

Vince is writing an English paper that needs to be $\frac{4}{5}$ of a page long. He has written $\frac{1}{5}$ of a page. How much more of a page does he need to write?

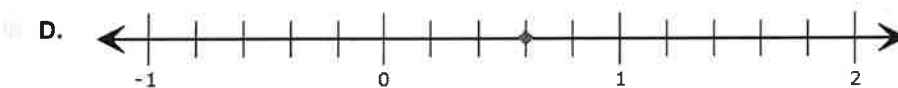
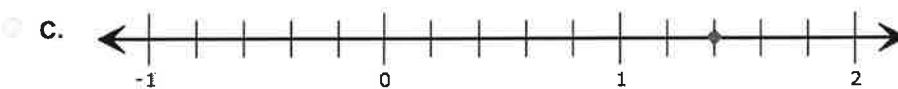
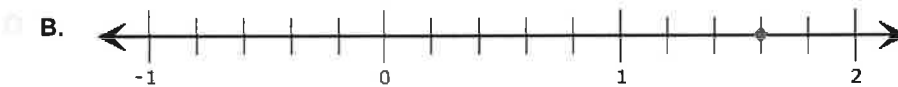
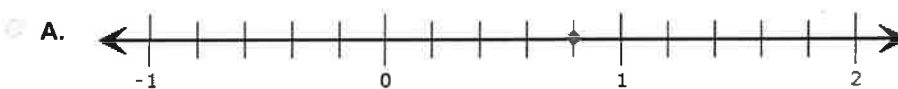
Gayin's golden retriever, Burt, is $\frac{4}{5}$ of a meter long. His Jack Russell terrier, Spot, is $\frac{1}{5}$ of a meter long. How many times longer is Burt than Spot?

Bruce's uncle is an oceanographer. He is in a submarine and is going to a depth of $\frac{4}{5}$ of a mile below sea level. So far, he has gone $\frac{1}{5}$ of a mile below sea level. How much deeper is he going to go?

A whale shark can dive to a depth of $\frac{4}{5}$ of a mile below zero. The record for a human diver is $\frac{1}{5}$ of a mile below zero. How many times deeper can the whale shark dive than a human?

Question 11 .

Jake ate $\frac{2}{5}$ of a cup of pretzels in the morning. In the evening he ate $\frac{6}{5}$ cups more. Which number line represents the total number of cups of pretzels that Jake ate in all?



Question 12 .

Directions: Select the correct answer from each drop-down menu.

Mavity Furniture is having a sale this weekend.

Before Taxes, Spend	Receive
\$500.00 - \$999.99	\$100.00 off
\$1,000.00 - \$1,999.99	\$250.00 off
\$2,000.00 or more	\$750.00 off

Ms. Marner purchased a conference table and chairs for \$1,860.00 before discount and taxes.
Ms. Kim purchased cubicles for \$5,775.00 before discount and taxes. The tax rate is 8.2%.

After taxes, Ms. received the greater percent decrease of % because of the sale. The difference between the percent decrease that each shopper received after taxes is %.

Question 13 .

Directions: Type the correct answer in each box. Use numerals instead of words. If necessary, use / for the fraction bar(s).

Anuja is baking cookies for her slumber party this weekend. She has one super size package of Sugar Sprinkles and one super size package of Chocolate Turtles. Both packages had to be mixed with flour, brown sugar, and water.

The Sugar Sprinkles package contained $\frac{3}{4}$ of a cup of mix that needs to be mixed with $2\frac{2}{5}$ cups of flour, $2\frac{1}{4}$ cups of brown sugar, and $3\frac{3}{8}$ cups of water. The directions indicate to use 0.1125 of a cup of dough to make one cookie and 1 batch should make a total of Sugar Sprinkles cookies.

The Chocolate Turtle package contained 0.875 of a cup of mix that needs to be mixed with 3.25 cups of flour, 2.5 cups of brown sugar, and 3.75 cups of water. The directions indicate to use $\frac{1}{8}$ of a cup of dough to make one cookie and 1 batch should make a total of Chocolate Turtle cookies.

The difference in the number of cookies of each type is .

Question 14 .

Which of the following tables represents a proportional relationship?

- A.

x	2	5	8	11
y	6	15	24	33
- B.

x	4	5	6	7
y	16	21	26	31
- C.

x	1	4	7	10
y	3	9	15	21
- D.

x	3	5	7	9
y	6	8	10	12

Question 15 .

Directions: Drag each tile to the correct box.

Three pizzerias claim they offer the pizza with the largest circumference.

Each of the 8 slices of Mario's Pizzeria's large pizza has an area of 14.13 square inches.

Each of the 16 slices of Tito's Pizzeria's large pizza has an area of 12.56 square inches.

Each of the 10 slices of Peter's Pizzeria's large pizza has an area of 15.386 square inches.

Place the pizzas in order of least to greatest circumference. Assume all pizzas are circles and assume all pizzas have the same thickness. Use 3.14 for π .

Question 16 .

Ron paid \$799.99 per laptop for three laptops and a flat rate fee for antivirus installation for a total bill of \$2,529.57 at Gigahertz Computers. Jerry paid \$777.16 per laptop for three laptops plus a per laptop antivirus installation fee for a total bill of \$2,481.42 at TechZone Computers. What is the difference in the amounts they paid for the antivirus installation charges?

- A. \$20.24
- B. \$23.44
- C. \$20.34
- D. \$21.34

Question 17 .

The total number of golfers, g , each day at a golf course is proportional to the number of tee times, t .

If four golfers are scheduled at each tee time, which equation represents the total number of daily golfers at the golf course?

- A. $g = \frac{1}{4}t$
- B. $g = 4 + t$
- C. $g = 4t$
- D. $g = 4 - t$

Question 18 .

Directions: Type the correct answer in each box. Use numerals instead of words. If necessary, use / for the fraction bar(s).

Expand the following expressions.

$$-2(3x - 5) = \boxed{}$$

$$\frac{1}{5}\left(3x + \frac{1}{2}\right) = \boxed{}$$

$$0.5(5x - 2.2) = \boxed{}$$

Question 19 .

A shipment of 8 boxes of candles weighed 43.92 pounds. If each box measured the same weight, what is the weight of 1 box?

- A. 5.49 pounds
- B. 351.36 pounds
- C. 51.92 pounds
- D. 35.92 pounds

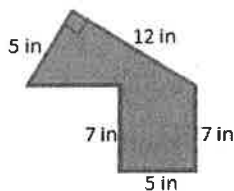
Question 20 .

Directions: Select the correct answer from each drop-down menu.

Shelbie has been asked to construct as many unique triangles as she can that have all sides of integer length, one side of length 5 cm, and a perimeter less than or equal to 16 cm.

Shelbie can construct unique triangles of which are strictly isosceles and equilateral.

Question 21 .

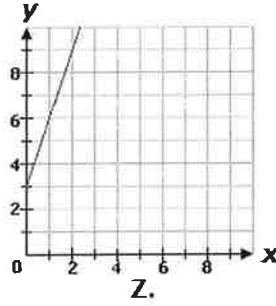
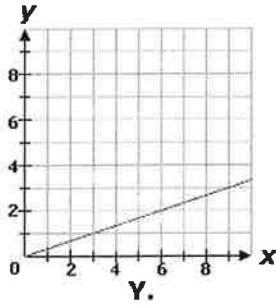
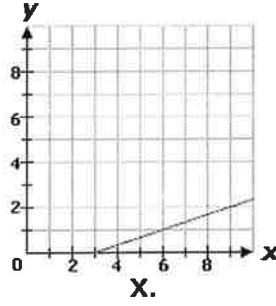
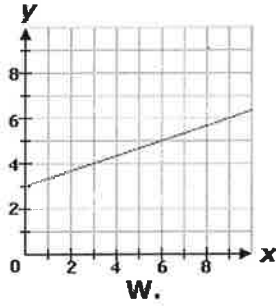


Find the area of this polygon.

- A. 70.5 square inches
- B. 54 square inches
- C. 65 square inches
- D. 44 square inches

Question 22 .

Which of the following graphs represents a proportional relationship?



- A. W
- B. X
- C. Y
- D. Z

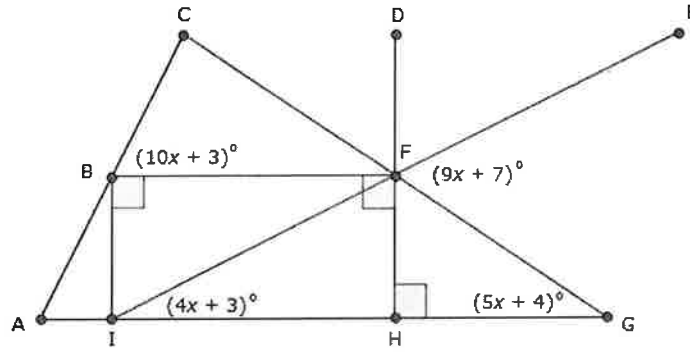
Question 23 .

Geraldine is purchasing fuel at a gas station where the price per gallon is \$2.81. Before she is able to complete her transaction, the price per gallon increases by 5%. What is the new price per gallon?

- A. \$3.86
- B. \$2.67
- C. \$2.95
- D. \$2.86

Question 24 .

Directions: Drag the tiles to the correct boxes to complete the pairs. Not all tiles will be used.



Using the image shown above, match the angles to their measure.

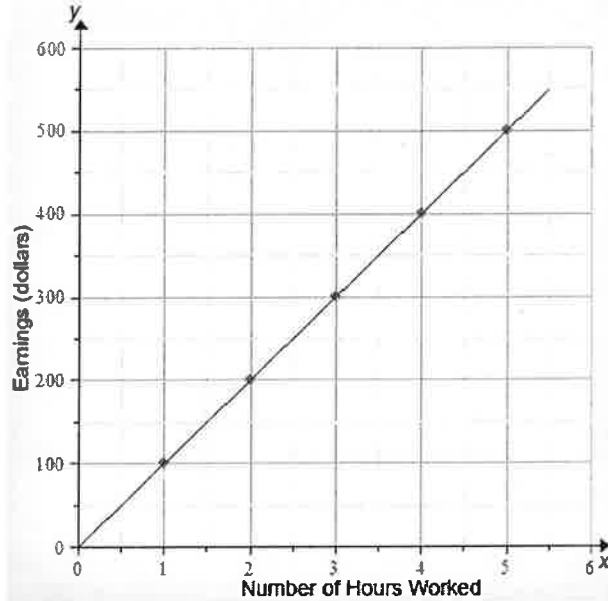
- $(86 - 5x)^\circ$
- $(4x + 3)^\circ$
- $(87 - 4x)^\circ$
- $(10x + 3)^\circ$
- $(173 - 15x)^\circ$
- $(5x + 4)^\circ$

$m \angle HFG$	← →	
$m \angle FIB$	← →	
$m \angle BCF$	← →	

Question 25 .

Directions: Select the correct answer.

The graph shows the relationship between the earnings of a plumber and the number of hours he works. What does the point (3, 300) represent in the graph?



- A. The plumber earns \$300 if he works for 1 hour.
- B. The plumber earns \$300 if he works for 3 hours.
- C. The plumber earns \$100 if he works for 3 hours.
- D. The plumber earns \$900 if he works for 3 hours.

Question 26 .

Directions: Select the correct answer.

Sheldon works in a shoe store. He earns a daily wage of \$100 and a commission of 2.5% on the sales he makes. If the amount of daily sales is S dollars, which expression shows how much Sheldon earns in a day?

- A. $102.5S$
- B. $100 + 2.5S$
- C. $(100 + 0.25)S$
- D. $100 + 0.025S$

Question 27 .

Kent is creating a rectangular model on a mat. He needs the width of the model to measure 22.5 inches. If the perimeter of the model can measure up to, but not including, 96.2 inches, which of the following best describes all possible lengths of the model?

- A. The length of the model is greater than 51.2 inches.
- B. The length of the model is less than 51.2 inches.
- C. The length of the model is greater than 25.6 inches.
- D. The length of the model is less than 25.6 inches.

Question 28 .

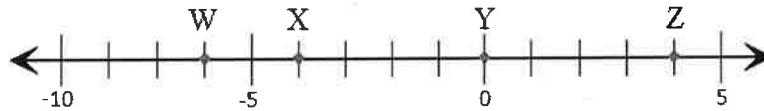
Choose the equivalent expression.

$$0.6x - 4.8 + 3x - 1.2x + 8.4$$

- A. $3x + 3.6$
- B. $1.2(4x + 3)$
- C. $-0.6x + 4.8$
- D. $1.2(2x + 3)$

Question 29 .

Alfred had \$4.00 in his checking account. He used his debit card to make a \$10.00 purchase at the mall. What letter on the number line below represents the balance of Alfred's checking account after the \$10.00 was withdrawn?



- A. W
- B. X
- C. Y
- D. Z

Question 30 .

Jennifer has a basket of her favorite fruits. The basket contains apples and oranges. She is hungry but cannot decide which fruit to eat, so she flips a coin. If the coin lands on heads, then she will eat an apple. If the coin lands on tails, then she will eat an orange. What is the probability that Jennifer will eat an orange?

- A. $\frac{1}{4}$
- B. 1
- C. $\frac{1}{10}$
- D. $\frac{1}{2}$

PARCC Math Benchmark 2

Question 1 .

Directions: Drag each tile to the correct box.

Place the complex fractions in order from least to greatest.

$\frac{\frac{3}{4} + 1}{\frac{2}{5}}$	$\frac{\frac{4}{5}}{\frac{11}{9} - 1}$	$\frac{\frac{2}{3} + 1}{1 - \frac{2}{3}}$

Question 2 .

Samantha is making salad for a party at her house. In the salad recipe that she is using, it takes $\frac{3}{4}$ of a pound of boneless chicken breasts to make 5 portions of the salad. She uses $1\frac{1}{5}$ pounds of chicken for every 3 cherry tomatoes used, and 9 cherry tomatoes for every 2 bags of spinach used.

If Samantha is making enough salad to use 4 bags of spinach, how many portions of salad will she make?

- A. 48
- B. 46
- C. 50
- D. 42

Question 3 .

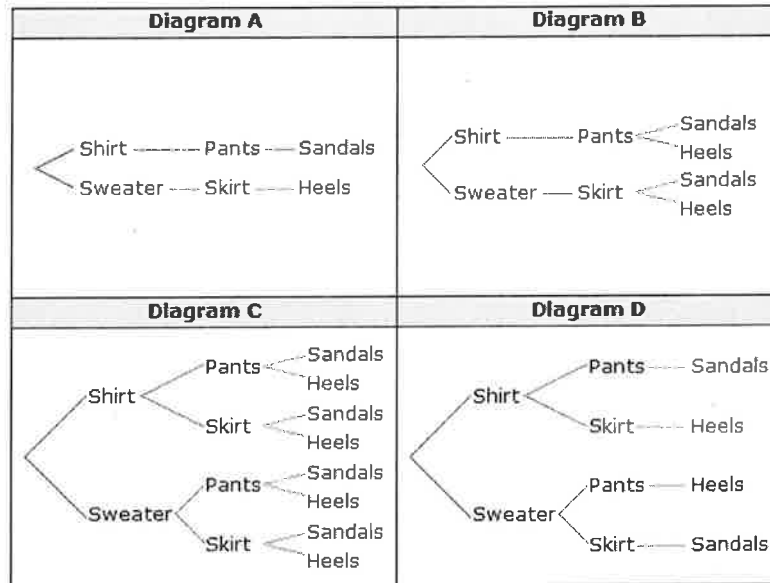
Daphne is mixing plaster to make a volcano model for her science project. The recipe calls for $\frac{1}{2}$ cup of plaster mix. Since she wants to make a large model, she is going to triple the recipe.

How much plaster mix will she use?

- A. $1\frac{1}{2}$ cups
- B. 2 cups
- C. $\frac{3}{4}$ cup
- D. 1 cup

Question 4 .

Suzy is picking out an outfit. She has a choice of a shirt or a sweater, a pair of pants or a skirt, and a pair of sandals or a pair of heels. Which tree diagram shows all of the possible outcomes?



- A. Diagram A
 B. Diagram B
 C. Diagram C
 D. Diagram D

Question 5 .

Directions: Type the correct answer in the box. Use numerals instead of words. If necessary, use / for the fraction bar.

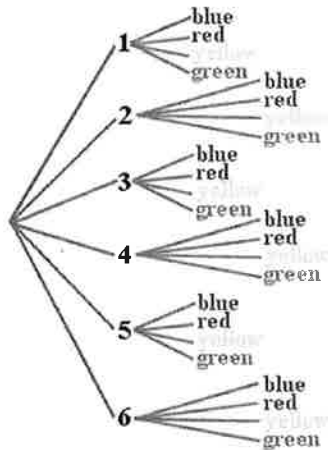
Blake has entered a mountain bike competition at Starvation Flats Bike Park. Placement in the competition is determined by a person's average speed over four laps around the course. The course itself is $\frac{2}{5}$ of a mile long. If Blake completed the four laps in 12 minutes, then his average speed around the track is miles per hour.

Question 6 .

Directions: Select the correct answer.

Mr. Torres took a number cube and a spinner from his desk. The faces of the cube are numbered from 1 to 6, and the spinner is divided into 4 equal parts (blue, red, yellow, and green).

The tree diagram below represents the outcomes of rolling the number cube and then spinning the spinner.



What is the probability that Mr. Torres will roll a 2 and the spinner will land on yellow?

- A. $\frac{1}{24}$
- B. $\frac{1}{6}$
- C. $\frac{1}{4}$
- D. $\frac{23}{24}$

Question 7 .

In a bag, there are two blue tokens, three red tokens, six yellow tokens, and four green tokens. Stephen will perform random trials of drawing a token and replacing it into the bag. Which of the following is a good prediction for the number of times a red or green token will be drawn in 300 trials?

- A. 181
- B. 85
- C. 119
- D. 138

Question 8 .

During a school fundraiser, the sales of 40 randomly selected students were reviewed. Twenty of the students were girls, and 20 of them were boys.

The following statistical information was calculated from the number of items sold by each student. Based on these samples, what generalization can be made?
Assume each student had a goal of selling 15 items.

	Girls	Boys
First Quartile	6	8
Second Quartile (Median)	18	12
Third Quartile	21	15

- A. About three-quarters of the boys did not reach their sales goal.
- B. All of the girls reached their sales goal.
- C. Exactly half of the boys reached their sales goal.
- D. More than half of the girls did not reach their sales goal.

Question 9 .

Charlotte and Kim each selected 20 beads from a jar containing 50 beads to make bracelets. The table shows the beads they selected.

Color of bead	Number Charlotte selected	Number Kim selected
Green	5	6
Blue	9	8
Pink	4	2
Yellow	2	4

Which statement is most likely true based on this information?

- A. The jar contained more green beads than any other color.
- B. The jar contained more pink beads than any other color.
- C. The jar contained more blue beads than any other color.
- D. The jar contained more yellow beads than any other color.

Question 10 .

Directions: Select the correct answer from each drop-down menu.

A. The fraction $\frac{-3}{-5}$ is the fraction $-\left(\frac{3}{5}\right)$.

B. The fraction $\frac{-3}{5}$ is the fraction $-\left(\frac{3}{5}\right)$.

C. The fraction $\frac{3}{-5}$ is the fraction $-\left(\frac{3}{5}\right)$.

D. The fraction $\frac{3}{5}$ is the fraction $-\left(\frac{3}{5}\right)$.

Question 11 .

In a tile game, Kent lost 53.5 points in the first round and 12.9 points in the second round.

After these two rounds, what is Kent's score?

- A. 40.6 points
- B. -66.4 points
- C. -40.6 points
- D. 66.4 points

Question 12 .

Directions: Select the correct answer from each drop-down menu.

Aerial's grandmother gave her \$5,500.00 to save for her college education. She went to the bank to open a savings account. The bank told her they had two options available.

Account A will pay 5.5% simple interest until the account is closed.

Account B will pay 4.5% simple interest and if the account is left open for longer than 3 years, then at the end of the third year a bonus account will be opened with \$250 that also earns 4.5% for the remainder of the time the initial account is open. When the initial account is closed, the bonus account will be closed as well and the money from the two accounts will be combined.

If Aerial is planning on leaving the money in the account for 4 years and then withdrawing all funds, then account is the better choice earning her more.

Question 13 .

Directions: Drag each tile to the correct box.

At Brick House Masonry Supply, it is time for annual pay raises for the fork lift operators.

Cody currently earns \$23.04 per hour and is receiving a raise equivalent to 3.125% of his current pay.

Gregg currently earns \$22.75 per hour and is receiving a raise equivalent to 0.04 of his current pay.

Kendall currently earns \$22.60 per hour and is receiving a raise equivalent to $\frac{1}{20}$ of his current pay.

List the employees in order from least hourly pay to greatest hourly pay based on their pay after the raises have gone into effect.

Gregg	Cody	Kendall

Question 14 .

Which of the following tables represents a proportional relationship?

- A.

x	2	4	9	12
y	10	18	38	50
- B.

x	2	5	7	11
y	8	20	28	44
- C.

x	1	4	7	11
y	5	8	11	15
- D.

x	3	5	9	12
y	10	14	22	28

Question 15 .

Directions: Drag each tile to the correct box.

While shopping, Edna noticed that three different pancake mixes indicated that they were the best value for the price. She also noticed that all three packages cost the same amount. She wanted to know how they could all be the best value if they all cost the same. So, she decided to do a comparison of the mixes.

Package A claims it makes 10 pancakes with a diameter of 6 inches.

Package B claims it makes 25 pancakes with a radius of 2 inches.

Package C claims it makes 50 pancakes with a circumference of 6.28 inches.

Based on the total pancake area, order the packages from most valuable to least valuable. Assume all three types of pancakes have the same thickness. Use 3.14 for π .

Question 16 .

Paul went to a solar panel store and paid \$923.40 per solar panel for two solar panels and a flat rate fee for installation for a total of \$1944.80. Brad went to another solar panel store and paid \$940.50 per solar panel for two solar panels plus a per solar panel installation fee for a total of \$1983.60. What is the difference in the amounts they paid in installation charges?

- A. \$6.60
- B. \$3.60
- C. \$4.60
- D. \$5.60

Question 17 .

Gerald earns a total of t dollars mowing n lawns for extra money after school. He charges d dollars per lawn that he mows.

Which equation shows the proportional relationship between the total amount of money Gerald earns and the number of lawns he mows?

- A. $t = n + d$
- B. $t = dn$
- C. $t = \frac{1}{d}n$
- D. $t = n - d$

Question 18 .

Directions: Drag the tiles to the correct boxes to complete the pairs. Not all tiles will be used.

Match the equivalent expressions.

$$-x + 3$$

$$x - 7$$

$$x + 3$$

$$5x - 3$$

$$-x + 7$$

$$5x + 3$$

$$(2x + 5) - (3x - 2) \longleftrightarrow$$

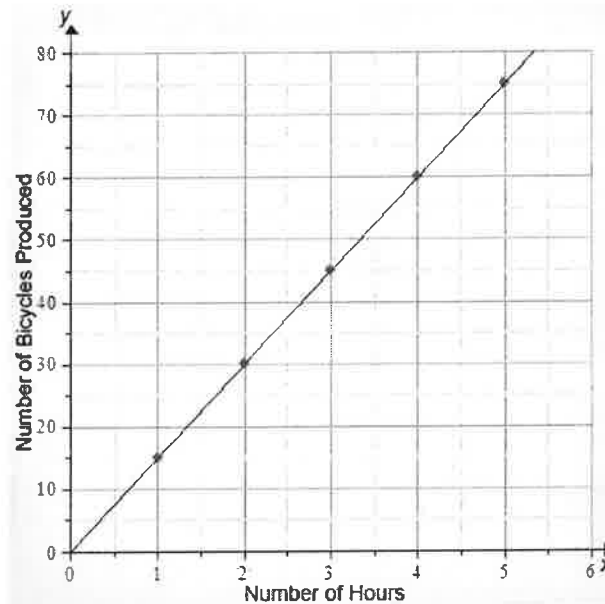
$$(3x - 2) - (2x + 5) \longleftrightarrow$$

$$(2x + 5) + (3x - 2) \longleftrightarrow$$

Question 19 .

Directions: Select the correct answer.

The graph shows the number of bicycles produced by a company every hour. What is the unit rate of bicycle production in this graph?



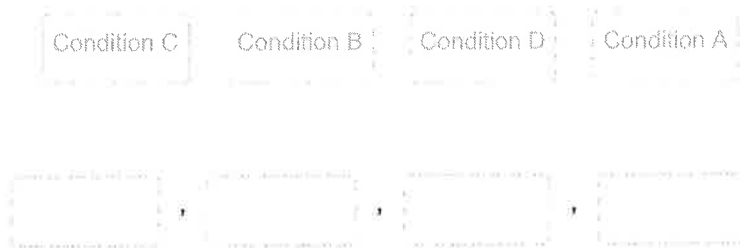
- A. 75 bicycles per hour
- B. 50 bicycles per hour
- C. 15 bicycles per hour
- D. 2 bicycles per hour

Question 20 .

Directions: Drag each tile to the correct box.

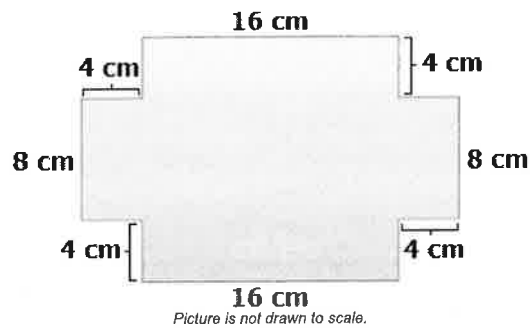
Order the following conditions in order from the largest number of possible triangles to the least number of possible triangles.

- Condition A: a perimeter of 12 and even-numbered side lengths
- Condition B: a side length of 4 inches, a side length of 5 inches, an included angle of 110° , and a perimeter of 11 inches
- Condition C: a right triangle with an area less than 13 square inches and odd-numbered leg lengths greater than 1 inch
- Condition D: an isosceles triangle with two angles that measure 50°



Question 21 .

Jenny is making a small right rectangular box with no lid out of construction paper using the net shown below.

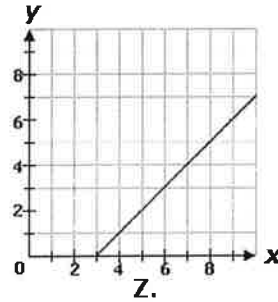
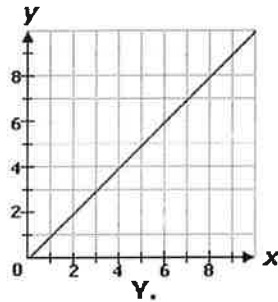
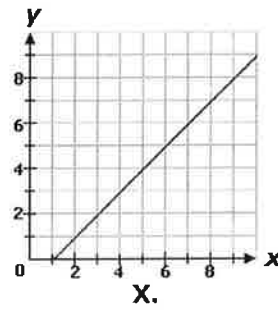
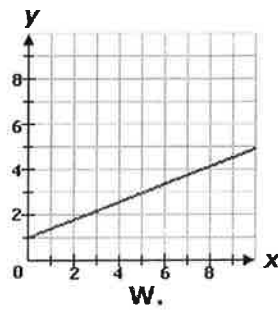


How much paper will she need?

- A. 128 sq cm
- B. 384 sq cm
- C. 320 sq cm
- D. 240 sq cm

Question 22 .

Which of the following graphs represents a proportional relationship?



- A. W
- B. X
- C. Y
- D. Z

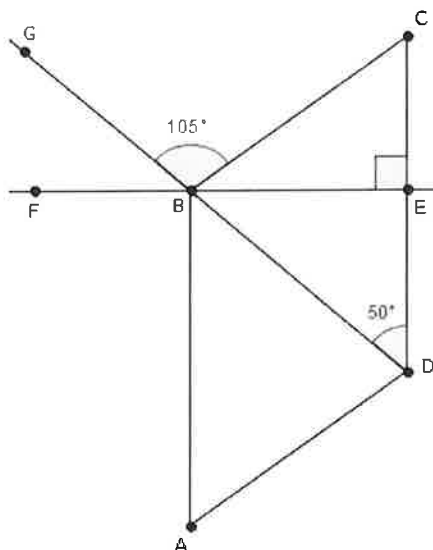
Question 23 .

Richard is given one of four pieces of equal-sized fabric. After using some of his fabric for a project, he has $\frac{5}{6}$ of a square yard left. If the total amount of fabric from the four original pieces was $11\frac{2}{3}$ square yards, about how much fabric did Richard use for his project?

- A. 3 square yards
- B. 1 square yard
- C. 2 square yards
- D. 4 square yards

Question 24 .

Directions: Type the correct answer in each box. Use numerals instead of words. If necessary, use / for the fraction bars(s).

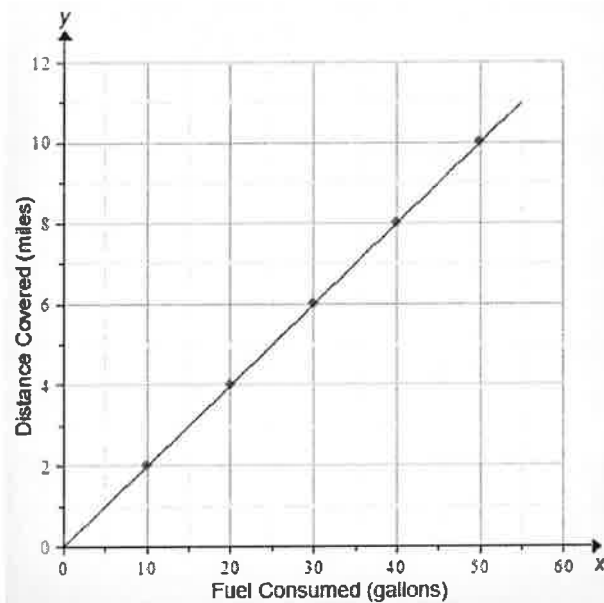


In the figure above, quadrilateral ABCD is a parallelogram. Let x represent the measure of angle GBF, y represent the measure of angle CBE, and z represent the measure of angle BCE.

The value of x is $^{\circ}$, the value of y is $^{\circ}$, and the value of z is $^{\circ}$.

Question 25 .

The graph shows the fuel consumed and the distance covered by a full commercial jet plane. What does the point (30, 6) on the graph represent?



- A. The plane consumed 5 gallons of fuel to travel 1 mile.
- B. The plane consumed 1 gallon of fuel to travel 5 miles.
- C. The plane consumed 6 gallons of fuel to travel 30 miles.
- D. The plane consumed 30 gallons of fuel to travel 6 miles.

Question 26 .

Directions: Select the correct answer.

Cora bought 12 printer cartridges and 15 reams of paper. A cartridge costs 10 times the price of a paper ream (p). Which expression represents the total amount Cora paid?

- A. $12(15p) + 10p$
- B. $(15 + 12)p + 10$
- C. $12(10p) + 15p$
- D. $(12p + 15p)10$

Question 27 .

Isabelle needs to earn at least \$534.78 at work this week. If she earns \$12.51 per hour that she works plus a bonus amount of \$234.44, which of the following best describes all possible number hours that Isabelle needs to work?

- A. Isabelle needs to work more than 24 hours.
- B. Isabelle needs to work more than 18 hours.
- C. Isabelle needs to work more than 61 hours.
- D. Isabelle needs to work more than 42 hours.

Question 28 .

Choose the equivalent expression.

$$-1.2x + 0.4 + 0.8x + 2x + 0.6$$

- A. $0.2(8x + 5)$
- B. $0.2(-12x + 1)$
- C. $-2x + 3$
- D. $4x + 1.2$

Question 29 .

Directions: Select the correct location on the number line.

Chauncey's birthday is in January. For his last birthday, the low temperature for the day was 9 °F. It was only 12 degrees above the all-time record low for Dallas, Texas. What is the all-time record low for Dallas?

Question 30 .

Mary has a jar of red, green, yellow, and blue marbles. She wants to give one marble to her brother, Jack, but she cannot decide which color to give. She decides to use a spinner which is divided into four equal sections, with each section representing a designated color.

What is the probability that Mary will give her brother a green marble?

- A. $\frac{2}{3}$
- B. $\frac{1}{2}$
- C. $\frac{3}{4}$
- D. $\frac{1}{4}$