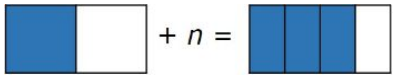
GMAS Study Guide - 6th Grade Math- [SLGNFHINWQ]

Student Name: _____ Teacher Name: Cassie Smith

Score: _____ Date: _____

Question 1 : 617249

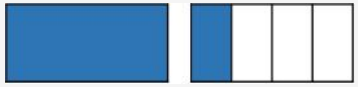


What is the value of n in the equation shown?

A 

B 

C 

D 

Question 2 : 51958

Find the sum: $3\frac{3}{8} + 7\frac{3}{4}$

A $10\frac{6}{12}$

B $10\frac{9}{16}$

C $11\frac{1}{8}$

D $11\frac{1}{2}$

Question 3 : 259618

Subtract and simplify:

$6\frac{1}{4} - 3\frac{5}{8} =$ _____

A $\frac{5}{8}$

B $\frac{20}{8}$

C $3\frac{6}{8}$

D $2\frac{5}{8}$

Question 4 : 617257

Clarissa is shipping two packages. The larger package weighs $5\frac{1}{5}$ pounds. The smaller package weighs $2\frac{1}{2}$ pounds. What is difference in weight between the two packages?

A $7\frac{7}{10}$

B $3\frac{1}{3}$

C $4\frac{7}{10}$

D $2\frac{7}{10}$

Question 5 : 617247

$6\frac{2}{3} - 2\frac{1}{9}$

What is the value of the expression above?

A $3\frac{5}{9}$

B $4\frac{1}{3}$

C	$3\frac{1}{3}$
D	$4\frac{5}{9}$

Question 6 : 618116

Which question can be answered using the expression $\frac{1}{3} \div \frac{1}{4}$?

A	How many $\frac{1}{3}$-gallons of water are in a $\frac{1}{4}$-gallon pot?
B	How many $\frac{1}{4}$-gallons of water are in a $\frac{1}{3}$-gallon pot?
C	Rex fills $\frac{1}{3}$ of a $\frac{1}{4}$-gallon pot with water. How much water did Rex put in the pot?
D	Rex fills $\frac{1}{4}$ of a $\frac{1}{3}$-gallon pot with water. How much water did Rex put in the pot?

Question 7 : 618125

Iris bought $3\frac{1}{2}$ cups of almonds. One serving of almonds is $\frac{1}{4}$ cup. How many servings of almonds did Iris buy?

A	14
B	7
C	$3\frac{1}{4}$
D	$\frac{7}{8}$

Question 8 : 1518797

Select all true statements.

A	Four friends are sharing equally $\frac{2}{3}$ of a pizza. Each person receives $\frac{1}{6}$ of a pizza.
B	$\frac{3}{9}$ cup of creamer is shared equally among 3 coffee drinkers. Each person receives $\frac{1}{3}$ of a cup of creamer.
C	Six friends share equally $\frac{3}{4}$ of a bar of chocolate. Each person receives $\frac{1}{8}$ of the bar.
D	In a relay race, the $\frac{1}{2}$ mile distance is divided equally amount 5 runners. Each person runs $\frac{1}{10}$ of a mile.

Question 9 : 497090

$\frac{1}{8}$ of a cup of cinnamon was sprinkled evenly over some pieces of toast. If $\frac{1}{32}$ of a cup was sprinkled on each piece, how many pieces were sprinkled?

A	4
B	6
C	7
D	8

Question 10 : 497086

Three-eighths of a gallon of apple cider is on hand to serve at Melissa's party. Each mug holds $\frac{1}{16}$ of a gallon. How many mugs can be filled?

A	4
B	6
C	8
D	9

Question 11 : 2003163

What is the difference of 645.634 and 523.02?

Question 12 : 549062

Multiply.

1.42×1.54

A	1.1886
B	1.6828
C	2.1868
D	2.2136

Question 13 : 2003158
What is the product of 12.4 and 2.6?

Question 14 : 603084

Quinton delivered 8 pallets of grass to a construction site for a new home and gave the contractor a bill.

• Each pallet of grass cost $137.59.

• The delivery charge was $102.

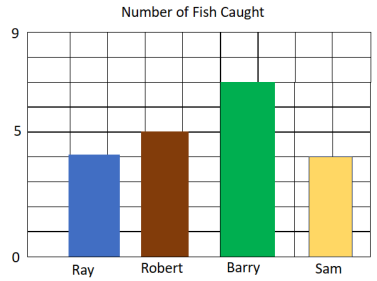
What is the total amount charged to the contractor?

A	$1,100.72
B	$1,916.72
C	$953.59
D	$1,202.72

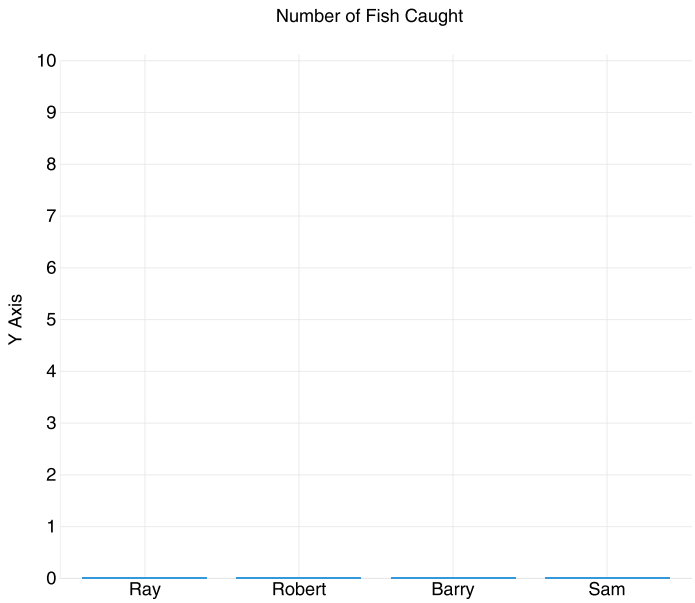
Question 15 : 495499
Find the difference: 15.08 − 2.67

A	12.41
B	18.41
C	21.82
D	22.12

Question 16 : 2024144
Several friends went fishing. They agreed to split the catch equally at the end of the day.



Create a bar graph that shows the equal distribution of the fish caught among the 4 friends.



Question 17 : 2000606



The list shows the area in square feet of each room in a house.

230, 236, 306, 184, 230, 192, 108, 330

What is the mean of these areas in square feet?

☐ square feet

Question 18 : 2013789

Nadia is a waitress. She earned $34, and $44, and $84 in tips on Wednesday, Thursday, and Friday last week. Nadia uses the equal share method to calculate the average amount that she earned in tips each of the three days.

Use the equal share method to find the average amount of money that Nadia earned in tips each of the three days. Select the correct answers from the drop-down menu.

Nadia determined that her average earnings in tips each of the three days was $ ☐ .

To find this value, Nadia shared $ ☐ from the $84 with the $34 and she shared $ ☐ from the $84 to the $44.

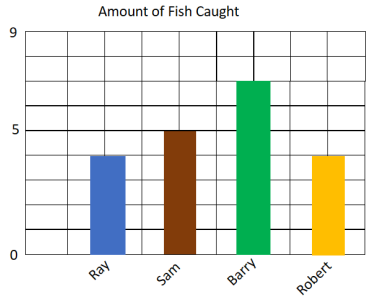
Question 19 : 2016637

Samuel made a 94, 88 and 63 on his history tests. He has one more history test that will be averaged to complete his final grade of an 88. What grade does Samuel need to make to be passing.

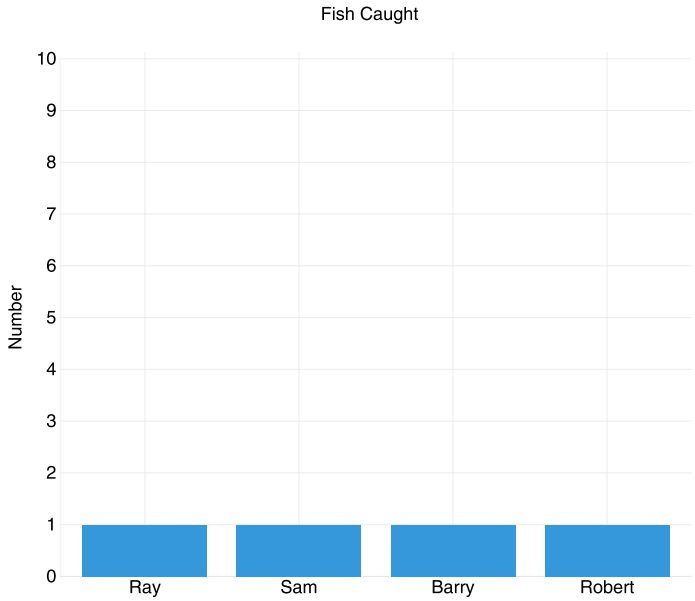
A	Samuel only needs to make 1/4 the difference of 19 which is 88 + 4.75 with is an 92.75.
B	Samuel needs to make the 88 plus the 31 difference of 63 and minus the 11 difference of 94 = 98.
C	Samuel would need to make a 107. Find the difference of 4 x 88 - (94 + 88 + 63) = 107.
D	Samuel needs to make 19 more points above a 63 on his next test.

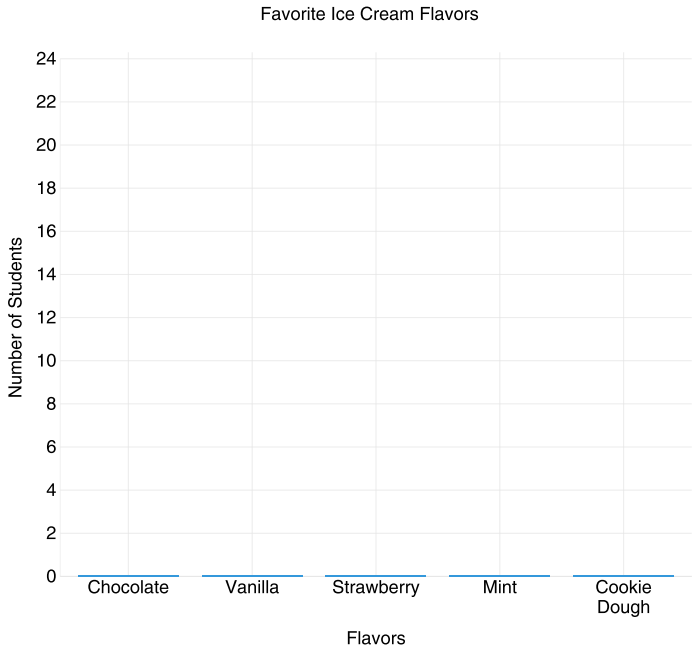
Question 20 : 2019643

The bar graph shows the number of fish that 4 friends caught one afternoon. The four friends agreed to equally share the fish that they caught with each other.



Create a new bar graph that shows how many seashells each of the four friends will have after they equally share the seashells.





Question 21 : 1511382

Analyze the information shown on this chart.

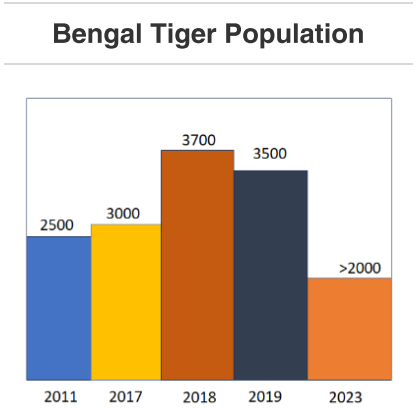
Favorite Ice Cream Flavors

Ice Cream Flavor	Number of Students
Chocolate	15
Vanilla	8
Strawberry	11
Mint	17
Cookie Dough	23

Create a bar graph accurately showing this information.

Question 22 : 2023094

The following bar graph is the population of the Bengal Tiger.



Based on the data in the graph, which statement is true?

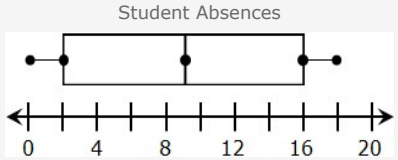
A	There has been an increase in the Bengal Tiger population ever year from 2011 through 2019.
B	In 2020, Covid-19 infected Bengal Tigers and caused a decline in their population.
C	The 2023 Bengal Tiger population was less than half of the 2017 Bengal Tiger population.
D	There was a significant decline in the Bengal Tiger population between 2019 and 2023.

Question 23 : 601139
The number of absences 15 students had last year are shown below.

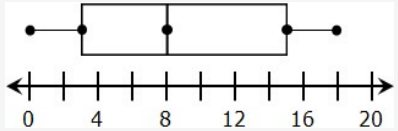
0, 1, 1, 2, 2, 4, 6, 8, 10, 10, 12, 14, 16, 17, 18

Which box and whisker plot best represents these data?

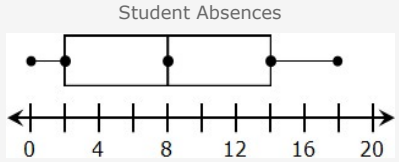
A



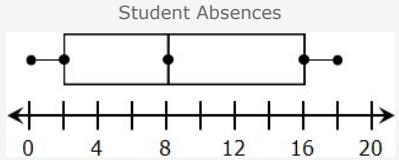
B



C



D

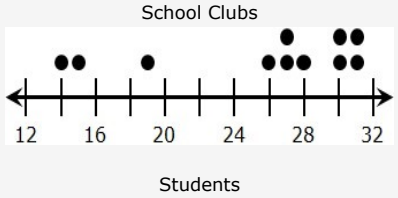


Question 24 : 618311
The list shows the number of students in different school clubs.

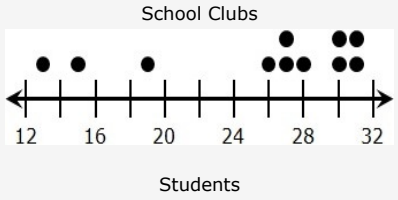
14, 15, 19, 26, 27, 27, 28, 30, 30, 31, 31

Which dot plot best represents this list?

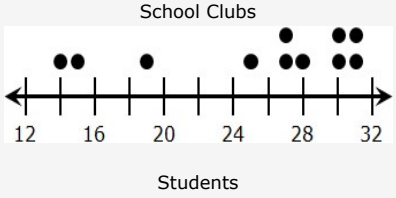
A



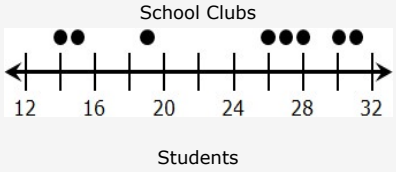
B



C



D

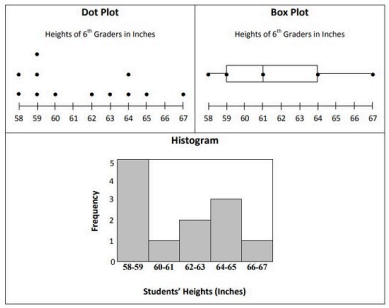


Question 25 : 1541341

Display Numerical Data

Twelve students in a math class were chosen at random and their heights, in inches, were measured. The recorded heights are shown.

{59, 65, 60, 64, 67, 58, 59, 63, 62, 64, 59, 58}



Which graphs correctly display the height data from the math class?

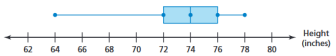
A	box plot and dot plot only
B	box plot and histogram only
C	histogram and dot plot only
D	box plot, dot plot, and histogram

Which graph displays can be used to find the median and the interquartile range of the data?

A	box plot and dot plot only
B	box plot and histogram only
C	histogram and dot plot only
D	box plot, dot plot, and histogram

Question 26 : 1547508

Interquartile Range



The heights of the basketball team's players are represented by the box plot. What is the interquartile range of the data?

A	4
B	11
C	78
D	80

Which statement is TRUE when interpreting the interquartile range (IQR) for the data?

A	The middle half of the heights vary by no more than 4 inches.
B	The middle half of the heights vary by exactly 4 inches.
C	The middle half of the heights vary by more than 4 inches.
D	The middle half of the heights are 4 inches more than the average height.

Question 27 : 1548816

Identifying Number of Observations

Fishing Contest

Number of Fish Caught	Number of Contestants
0	0
1	2
2	1
3	6
4	2
5	3

The table shows the number of fish caught by contestants during a fishing contest. How many contestants fished?

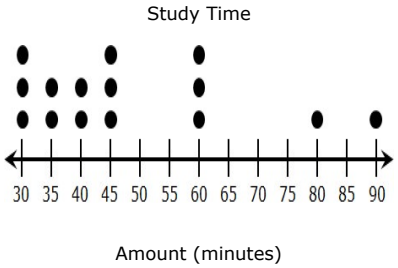
A	6
B	12
C	14
D	15

What is the median and the range for the number of fish caught?

A	median = 4, range = 3
B	median = 2, range = 4
C	median = 3, range = 4
D	median = 3, range = 5

Question 28 : 601407

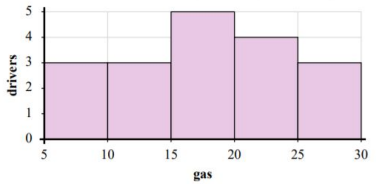
Ms. Bohanon surveyed each of her students about the amount of time they studied for a test. The dot plot shows the results.



Which statement is best supported by the data in the dot plot?

A	The number of students who studied one hour or more is greater than the number of students who studied less than 45 minutes.
B	The difference between the greatest and least amounts of time students studied is one hour.
C	The number of students who studied more than one hour is greater than the number of students who studied one-half hour.
D	The most common amount of time students studied is 60 minutes.

Question 29 : 1520470



The histogram shows the gallons of gas drivers purchased each week.

Complete each sentence by dragging the correct answer to each blank.

1. Drivers purchased from [ ] to [ ] gallons each week..
2. [ ] drivers purchased between 20 and 25 gallons.
3. [ ] drivers are represented in this histogram.

18 15 5 0 105 4 30 3

Question 30 : 95443

Madelyn bowled 6 games at a bowling alley. Her scores were as follows:

211, 183, 162, 151, 202, 195

What was Madelyn's mean score for the 6 games?

A	182
B	184
C	202
D	364

Question 31 : 161421

Points Per Game Leaders			
RK	PLAYER	TEAM	PTS
1	LeBron James, SF	CLE	29.8
2	Kevin Durant, SF	OKC	29.6
3	Carmelo Anthony, SF	DEN	28.9
4	Kobe Bryant, SG	LAL	27.1
5	Dwyane Wade, SG	MIA	26.4
6	Monta Ellis, SG	GSW	25.5
7	Dirk Nowitzki, PF	DAL	24.5
8	Danny Granger, SF	IND	24.0
9	Chris Bosh, PF	TOR	23.8
10	Amare Stoudemire, PF	PHO	22.9

The graphic shows the average number of points scored per game for ten players in the NBA.

What is the range value of the data set?

A 3.45

B 3.5

C 6.9

D 7

E 7.8

Question 32 : 121371

In March in Austin, Texas, the temperatures for 7 consecutive days were 20°C, 22°C, 20°C, 24°C, 21°C, 26°C, and 23°C. What was the median of the temperatures for these days?

A 20°C

B 21°C

C 22°C

D 23°C

E 24°C

Question 33 : 240301

Anna's scores for a video game are 670, 575, 400, 575, 1250, 720, and 885. Which statement about the data is correct?

A The median is equal to the mean.

B The mean is less than the median.

C The mean is greater than the median.

D The median and mean cannot be compared.

Question 34 : 2024448

Find the median and mean of the following set of data. Then if you add another value, how it changes the outcome.

$$13,\ 37,\ 66,\ 39,\ 76,\ 38,\ 25$$

Find the median and mean of the original set of data. Next when you add 98, select the correct answer to what happens to the median and mean.

A The Median = 38 and the Mean is 42; after adding 98, the median is 38.5 and mean is 49.

B The median = 39 and the mean is 42; after adding 98, the median is 57.5 and the mean is 49.

C The Median = 39 and the mean is 31; after adding 98, the median is 57.5 and the mean is 41.

D The Median = 38 and Mean is 31; after adding 98, the median is 38.5 and the Mean is 41.

Question 35 : 2024446

Mrs. Witszche priced the small, medium, large and x-large pumpkins at different pumpkin patches. See her results below.

	Local Church Pumpkin Patch		Patty's Pumpkin Patch		Pumpkin Patch, Gords and More...
Sm.	$4	Sm.	$4	Sm.	$6
med	$8	med	$6	med	$8
large	$10	large	$12	large	$11
X-large	$15	X-large	$16	X-large	$15

Which pumpkin patch has the lowest (least) median and mean price for a pumpkin?

Select the appropriate answer from each drop-down menu to correctly complete the statements.

The pumpkin patch with the lowest median price is [ ]. This median price is [ ].

The pumpkin patch with the lowest mean price is [ ]. This mean price is [ ].

Question 36 : 2018567

Shubham asks each of his classmates how long it takes them to get to school in the morning. The following data shows their responses.

Time in minutes: $\{8,\ 10,\ 10,\ 10,\ 15,\ 15,\ 18,\ 19,\ 20,\ 20,\ 25,\ 55\}$

Which measure, range or interquartile range, would be more appropriate to use to describe the variation of the data?

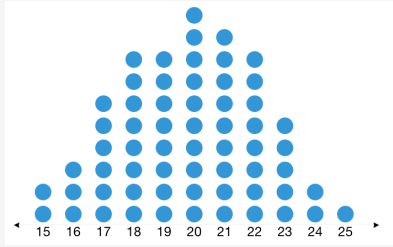
A	The range because it is less sensitive to outliers.
B	The range because it is more sensitive to outliers.
C	The interquartile range because it is less sensitive to outliers.
D	The interquartile range because it is more sensitive to outliers.

Question 37 : 2024911

Kasia is analyzing several data sets and determining whether to use the mean or the median to represent the typical value.

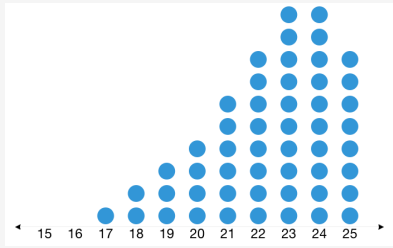
Which of the following dot-plots best represents a data set where Kasia should choose the **mean** to represent the typical value?

A



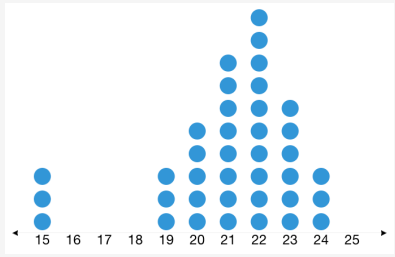
Number of Books Read

C



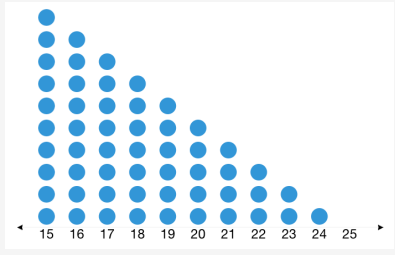
Number of Books Read

B



Number of Books Read

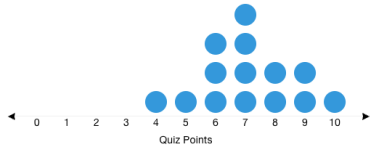
D



Number of Books Read

Question 38 : 2014100

Ms. Gonzalez is analyzing the scores on a 10 point vocabulary quiz she recently gave to her students. The dot plot below shows the points that students earned on the quiz.



PART A

Find the median and the mean of the data. Round your answers to the nearest hundredth where necessary.

Median = ☐

Mean = ☐

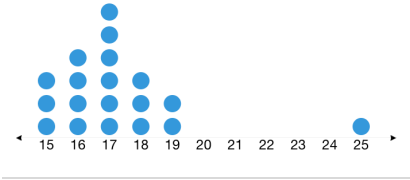
PART B

Which is the better measure of central tendency for this data?

The ☐ is the better measure of center for this data. This is because the data is ☐.

Question 39 : 2024910

Karla surveyed here classmates and asked them how many minutes they spend getting ready for school in the morning. The results are displayed in the dot-plot.



Minutes Getting Ready

If the value 25 is removed from the data, which of the following will occur?

A	The median decreases by approximately 0.4.
B	The mean decreases by approximately 0.4.
C	The median increases by approximately 0.4.
D	The mean increases by approximately 0.4.

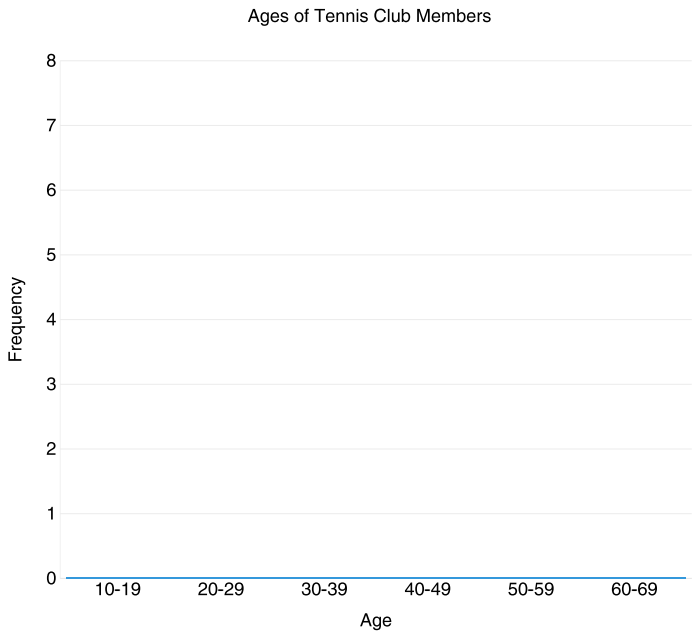
Question 40 : 2014103

The marketing team at a tennis club wants to determine the ages of its members before it launches new merchandise. The data they collected on the ages of the members is shown below.

Ages = {48, 22, 54, 31, 16, 63, 48, 29, 36, 45, 56, 57, 62, 41, 59, 56, 67, 68}

PART A

Create a histogram to display the data.



PART B

Which is the better measure of central tendency for this data?

The [ ] is the better measure of center for this data. This is because the data is [ ].

Question 41 : 27094

I. You gain 12 pounds.

II. A balloon descends 12 feet.

III. A metal spring gets 12 inches shorter.

The integer –12 would BEST represent which of these events?

A	I only
B	III only
C	I and II only
D	II and III only

Question 42 : 618145

Which situation has a value of –7?

A	An elevator is on the 14th floor. It descends 7 floors.
B	The football team gains 8 yards and loses 15 yards.
C	At golf, Matt scored +5 on the first hole and –2 on the second hole.
D	The temperature was 78˚F and dropped to 71˚F.

Question 43 : 618136

Which situation has a value of –15?

A	A roller coaster begins at 90 feet above ground level. Then it descends 85 feet.
B	Steve's bank charged him $15 for an overdraft fee. Then, he deposited $30.
C	An elevator went up 6 floors and down 9 floors.
D	On the first play, the football team lost 10 yards. On the second play, the team lost 5 yards.

Question 44 : 618139

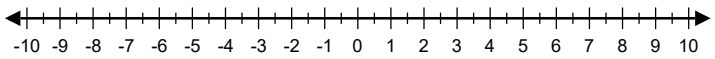
Which situation has a value of 7?

A	Cory has a score of 12 in a bean-bag toss game. On his next turn, he loses 8 points.
B	A fisherman moves a lobster trap from 20 feet below sea level to a location 15 feet deeper.
C	An elevator is two floors below ground level and goes up 5 floors.
D	One morning, the temperature was Balance of –5˚F. By noon, the temperature had increased 12 degrees.

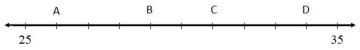
Question 45 : 426763
Which integer represents 100 feet below sea level?

A	100
B	0
C	–100
D	–200

Question 46 : 2013479
Plot a point on the number line that represents the opposite of 6.5.



Question 47 : 120978



What is the opposite of the coordinate for point C?

A	–30
B	–31
C	30
D	31

Question 48 : 120987
What is the opposite of $\frac{1}{2}$?

A	2
B	$-\frac{2}{1}$
C	$-\frac{1}{2}$
D	A fraction does not have an opposite.

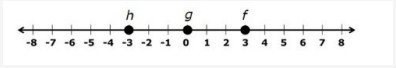
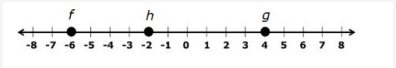
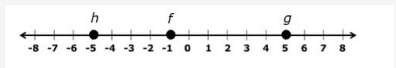
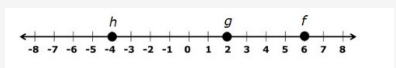
Question 49 : 618187
Three values on a number line are labeled f, g, and h.

$-f = h$

$g = -g$

$f = 3$

Which number line correctly shows the values of *f*, *g*, and *h*?

A	
B	
C	
D	

Question 50 : 600067
Which numbers have an opposite that is greater than 9?

(Choose 3)

A	–10
B	–9.05
C	–13

D	12
E	–5

Question 51 : 2019811

Shelly and Samantha were solving ordering of rational numbers. One of their problems displayed a set of rational numbers and to place them in order from greatest to least.

Which order of the rational numbers from greatest to least is correct?

A	$4.8,\ 4.79,\ 12,\ 7.2,\ 26$
B	$7.2,\ 4.79,\ 4.8,\ 12,\ 26$
C	$26,\ 12,\ 7.2,\ 4.79,\ 4.8$
D	$26,\ 12,\ 7.2,\ 4.8,\ 4.79$

Question 52 : 618221

Martha kept track of the change in her bank account each month. The table shows the percent increases and decreases in her bank account.



Martha's Bank Account

Month	Change in Bank Account (%)
February	2.45
March	-1.43
April	-1.03
May	1.42
June	2.48

Which inequality correctly compares the values from the table?

A	-1.03 < -1.43
B	1.42 < -1.43
C	-1.03 > -1.43
D	2.48 < 2.45

Question 53 : 618215



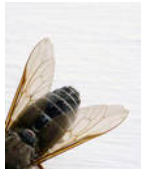
The change in total rainfall, in inches, from last year to this year in Trenton, New Jersey was -4. This value is greater than the change in total rainfall in Dallas, Texas.

Select all the values that could represent the change in total rainfall in Dallas, Texas.

(choose 3)

A	4
B	-5
C	-10
D	-2
E	-6

Question 54 : 618218



A fly that started 20 inches above the windowsill is now below the windowsill.
Select all the values that could represent the fly's change in altitude?

(choose 2)

A	0
B	-60
C	-25

D	20
E	45

Question 55 : 618222



While hiking, Ellie started at 400 feet below sea level. She ended at a higher elevation than she started.

Select all the values that could represent the elevation Ellie ended her hike at.

(choose 3)

A	-600
B	-300
C	-100
D	-200
E	-400

Question 56 : 2000627

What is |–27|?

Question 57 : 176153

Debt Table

Name	Bank Balance
Benton	−$153
Samuel	−$140
Winston	$175
Harley	−$2.45

According to the table, which statement is correct about the bank balances?

A	Samuel has less debt than Harley.
B	Harley has more debt than Benton.
C	Benton has more debt than Winston.
D	Winston has more debt than Benton.

Question 58 : 2000619

What is |3|?

Question 59 : 464223

A fire extinguisher contains solid carbon dioxide, which is at –108 °F. Which absolute value statement describes how far below zero this temperature is?

A	|–108| = 108
B	–|108| = 108
C	|–108| = –108
D	–|108| = –108

Question 60 : 1547478

Ordering Negative Rational Numbers

Location	Temperature (°F)
International Falls	−40° F
Stanley, Idaho	−53° F
Yakutsk, Siberia	−84° F
Prospect Creek, Alaska	−78° F

The table shows the lowest temperatures last year for the coldest locations in the world. Which location had the coldest temperature?

A	Stanley, Idaho
B	Yakutsk, Siberia
C	International Falls
D	Prospect Creek, Alaska

Order the temperatures in the table from LEAST to GREATEST.

A	$-84, -78, -53, -40$
B	$-40, -53, -84, -78$
C	$-40, -53, -78, -84$
D	$-78, -84, -53, -40$

Question 61 : 618238



At snack time the Mrs. Luiz divided 240 raisins into 5 equal groups. If there are 6 children in each group, which statement is true?

A	For each student, there are 20 raisins.
B	For every 8 students, there is 1 raisin.
C	For each student, there are 8 raisins.
D	For every 11 students, there is 1 raisin.

Question 62 : 618239



There are 32 cars parked in the parking garage. If there are 8 parking spaces that are empty, which statement is true?

A	For every 8 cars parked in parking spaces, there is 1 space that is empty.
B	For each car parked in a parking space, there are 8 spaces that are empty.
C	For every 4 cars parked in parking spaces, there is 1 space that is empty.
D	For each car parked in a parking space, there are 4 spaces that are empty.

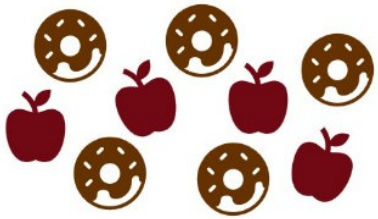
Question 63 : 421136

The ratio of squirrels to pigeons in the park is 15:125. Which statement describes this relationship?

A	There are 3 squirrels for every 25 pigeons in the park.
B	There are 3 squirrels for every 5 pigeons in the park.
C	There are 5 squirrels for every 3 pigeons in the park.
D	There are 25 squirrels for every 3 pigeons in the park.

Question 64 : 618241

A set of apples and donuts is shown.



Which statement about the apples and donuts is true?

A	The ratio of donuts to apples is 1:2.	C	The ratio of donuts to all items is 4:9.
B	The ratio of apples to all items is 5:9.	D	The ratio of apples to donuts 4:5.

Question 65 : 618234



During the soccer game, Warren made 3 shots. If he took a total of 9 shots, which statement is true?

A	For each shot Warren took, there were 3 shots that he made.
B	For each shot Warren took, there were 6 shots that he made.
C	For every 3 shots Warren took, there was 1 shot that he made.
D	For every 6 shots Warren took, there was 1 shot that he made.

Question 66 : 2035445

Smoothie artist Liam is introducing a new smoothie called Tropical Sunrise at his smoothie bar, which combines mango puree and coconut milk in a consistent ratio. Several sizes of the smoothie are listed on the menu, detailing the milliliters of mango puree and milliliters of coconut milk used. However, two values are missing from the menu.

Fill in the two missing values in the table.

Tropical Sunrise	**Milliliters of Mango Puree**	9	18		45	63
	Milliliters of Coconut milk		4	8	10	14

Question 67 : 2027682

Layla plays on her school basketball team. Based on her statistics in games this school year, Layla makes one basket out of every three shots that she attempts. Layla uses the equation $m = \frac{1}{3}a$ to represent the situation.

Complete the table below to represent this relationship.

Layla's Basketball Shots in a Game	**Attemps**	12	15		33	36
	Makes			8		12

Question 68 : 618268

A bakery sells 5 chocolate cupcakes to every 3 vanilla cupcakes. Which table shows this ratio?

A

Bakery Sales

Chocolate Cupcakes	Vanilla Cupcakes
5	3
10	13
20	23

B

Bakery Sales

Chocolate Cupcakes	Vanilla Cupcakes
10	6
15	9
35	21

C

Bakery Sales

Chocolate Cupcakes	Vanilla Cupcakes
5	3
20	5
30	15

D

Bakery Sales

Chocolate Cupcakes	Vanilla Cupcakes
20	4
30	6
40	8

Question 69 : 618265

The ratio of computers to students is a fixed number at Middleton Middle School. The table shows the number of computers for 240 students.

Middleton Middle School

Number of Students	Number of Computers
240	48
330	?

What is the number of computers when the number of students is 330?

A	35	B	96	C	138	D	66

Question 70 : 2027674

Devorah owns a bakery. To make a certain shade of green butter cream icing, Devorah uses 3 drops of yellow food coloring for each drop of blue food coloring. She writes down the equation $y = 3b$ to represent the relationship.

Complete the table below to represent this relationship.

Green Icing	**Drops of Blue Food Coloring**	1	2	3		5
	Drops of Yellow Food Coloring		6		12	

Question 71 : 600532



Yvonne made an oil and vinegar dressing using an oil to vinegar ratio of 3 tablespoons to 2 tablespoons. She tasted the dressing and decided it was too oily. Which oil to vinegar ratio could Yvonne use to make a less oily dressing?

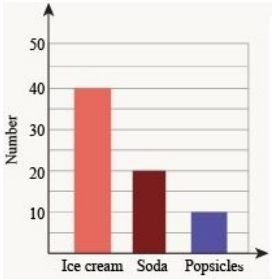
A	6:4
B	3:1
C	4:2
D	3:3

Question 72 : 600540

In Ronna's class, the ratio of boys to girls is 2:3. In Suzie's class, there are half as many girls as in Ronna's class. If there are 12 boys in Ronna's class, how many girls are in Suzie's class?

A	18
B	6
C	9
D	36

Question 73 : 169965



A survey asked a group of students to choose their favorite type of refreshment from the choices of ice cream, soda, and popsicles. The results of the survey are shown in the graph.

Based on the graph, how many students in a class of 280 students would be expected to choose ice cream as their favorite type of refreshment?

A	80
B	120
C	160
D	180

Question 74 : 600534

Luanne and Fiona each made a salt water solution. Luanne mixed 3 cups of salt with every gallon of water. Fiona mixed 2 cups of salt with every 3 gallons water. Which of these statements is true?

A	Luanne used more salt per gallon of water, because 1 gallon is greater than 2 cups.
B	Luanne used more salt per gallon of water, because 3:1 is greater than 2:3.
C	Fiona used more salt per gallon of water, because 2:3 is greater than 3:1.
D	Fiona used more salt per gallon of water, because 3 gallons is greater than 1 gallon.

Question 75 : 22123



Lindsay has some yellow and red flowers in a vase. The ratio of yellow to red flowers is 4:7. The number of yellow flowers in Lindsay's vase is shown. How many red flowers are in the vase?

A	14
B	8
C	11
D	12

Question 76 : 977

Winnie the Pooh goes to the honey store to buy a case of honey for the winter. The case of 24 jars of honey cost $27.60. What is the cost of each jar?

A	$0.87
B	$1.00
C	$1.15
D	$62.40

Question 77 : 618257



The plumber's first stop was to fix a water faucet that leaked 27 liters of water every 3 hours. His second stop was to fix a water faucet that leaked 35 liters of water every 7 hours.

Which statement correctly compares the amount of water leaked, in liters, per hour?

A	The first faucet leaked 4 more liters per hour than the second faucet.
B	The first faucet leaked 5 more liters per hour than the second faucet.
C	The second faucet leaked 6 more liters per hour than the first faucet.
D	The second faucet leaked 9 more liters per hour than the first faucet.

Question 78 : 419836

The ratio of the number of miles Kyle drives to the number of hours he is driving is 468 to 9. What is Kyle's rate of speed?

A	52 miles per hour
B	56 miles per hour
C	64 miles per hour
D	68 miles per hour

Question 79 : 602997



Paul spent $179.10 on 6 concert tickets. Each concert ticket cost the same amount. How much did each concert ticket cost?

A	$28.85
B	$1,074.60
C	$185.10
D	$29.85

Question 80 : 1817

Carrie is buying bulk candy for a high school fundraiser. She buys 1000 candy bars for $350. What is the unit cost per candy bar?

A	$.30
B	$.35
C	$.45
D	$1.35

Question 81 : 71665

Ms. Davenport bought a dozen packages of spaghetti sauce mix priced at 3 packages for $1.29. What is the price of one package of spaghetti sauce mix?

A	$0.32
B	$0.43
C	$1.55
D	$2.32

Question 82 : 618279



At the bake sale, the soccer team sold 12 cupcakes in 8 hours. At that rate, how many cupcakes did they sell in 16 hours?

A	25
B	18
C	24
D	12

Question 83 : 618276



Renaldo exchanged 7 euros for 11 dollars. At this rate, how many dollars can Renaldo get with 49 euros?

A	$18
B	$77
C	$7
D	$36

Question 84 : 602926

The ratio of rides to games at the fair is 3 to 4. If there are 27 rides at the fair, how many games are there?



A	32
B	18
C	63
D	36

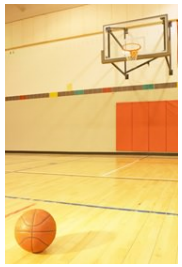
Question 85 : 618277



Jonelle scored 10 points every six games. If her scoring rate remains the same, which method could be used to determine the number of points she scores in eighteen games?

A	Add 10 and 3
B	Multiply 10 by 3
C	Divide 10 by 6
D	Subtract 3 from 6

Question 86 : 2000664



Last year, the school basketball team won 75% of their 32 games.

How many games did the school basketball team win last year?

☐ games

Question 87 : 451629

Jenna has a savings account invested in stocks and bonds. 20% of her savings is in bonds. If Jenna has $2,200 in bonds, how much does she have in savings all together?

A	$8,000
B	$9,000
C	$11,000
D	$12,000

Question 88 : 600578



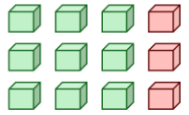
Yesterday, Paulie's Pizzeria sold 176 pepperoni pizzas. This number represents 80% of all the pizzas sold by the pizzeria yesterday. What is the total number of pizzas sold by Paulie's Pizzeria yesterday?

A	96
B	256
C	141
D	220

Question 89 : 600585

A stadium seats 60,000 people. If 45,000 of the seats are filled, what percentage of the seats are filled?

Jaianna used green blocks and red blocks to model this scenario, as shown in the image below.



Key:



(any color) = 5,000 seats

A	75%
B	0.75%

C	45%
D	15%

Question 90 : 554781

Jared works at Cycle Craze and needs to assemble 280 bicycles. Jared has assembled 25% of the bicycles. How many bicycles still need to be assembled?

A	70
B	210
C	205
D	255

Question 91 : 600979



Cory was training for a marathon. He ran 50.2 kilometers this month.

How many meters did Cory run this month?

A	502
B	50,200
C	5,200
D	502,000

Question 92 : 600962



The length of the Golden Gate Bridge in San Francisco is 1,400 yards.

Set up a proportion and determine the length of the bridge in feet.

A	2,400 ft
B	1,200 ft
C	467 ft
D	4,200 ft

Question 93 : 600971

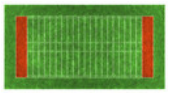


Freddie went trick-or-treating. He walked 0.75 km to the first house.

How many centimeters did he walk?

A	75,000 cm
B	7,500 cm
C	750 cm
D	75 cm

Question 94 : 600967



The perimeter of a football field is $346\frac{2}{3}$ ***yards***.

What is the perimeter of the football field in ***feet***?

A	$115\frac{5}{9}$ feet
B	$1,038\frac{2}{3}$ feet
C	$1,040$ feet
D	$1,060$ feet

Question 95 : 600978



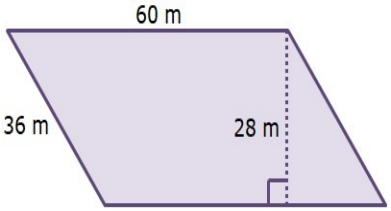
John rode 218,592 inches on his bike.

How many miles did John ride?

A	218.592 miles
B	3.45 miles
C	3,645 miles
D	1,200 miles

Question 96 : 601089

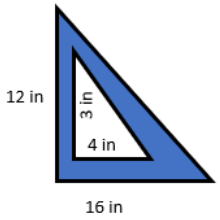
The dimensions of a parallelogram are shown below.



What is the area of the parallelogram in square meters?

A	2,160 m^2
B	1,008 m^2
C	1,680 m^2
D	220 m^2

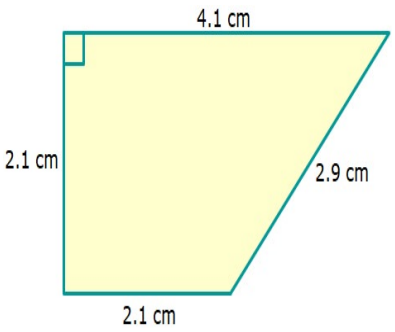
Question 97 : 535453



Find the area of the blue shaded region in the figure.

A	84 in^2
B	90 in^2
C	186 in^2
D	204 in^2

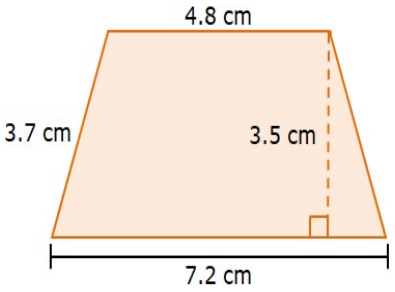
Question 98 : 601093
The dimensions of a trapezoid are shown below.



What is the area of the trapezoid in square centimeters?

A	13.02 cm^2
B	8.99 cm^2
C	6.51 cm^2
D	11.89 cm^2

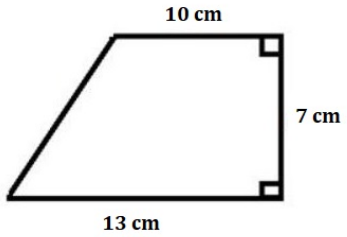
Question 99 : 601092
The dimensions of a trapezoid are shown below.



What is the area of the trapezoid in square centimeters?

A	22.2 cm^2
B	44.4 cm^2
C	42 cm^2
D	21 cm^2

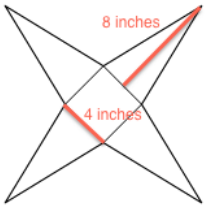
Question 100 : 396490



Find the area of the trapezoid by decomposing it into other shapes.

A	67.5 cm^2
B	72.5 cm^2
C	77.5 cm^2
D	80.5 cm^2

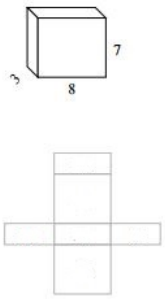
Question 101 : 61649



Henry was building a tent and had four spikes that he had to pound into the ground. The net of one of the spikes is shown. What is the surface area of his spike?

A	64 in^2
B	80 in^2
C	128 in^2
D	144 in^2

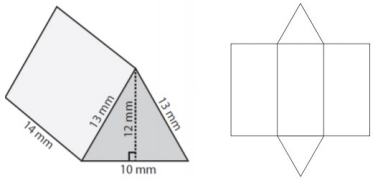
Question 102 : 176101



Use the net to compute the surface area of the three-dimensional figure.

A	126 units^2
B	132 units^2
C	154 units^2
D	202 units^2

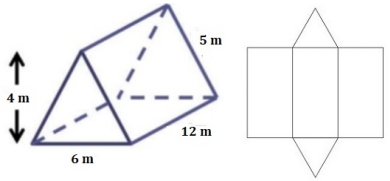
Question 103 : 251356



Use the net as an aid to compute the surface area of the triangular prism.

A	424 mm^2
B	484 mm^2
C	564 mm^2
D	624 mm^2

Question 104 : 251434

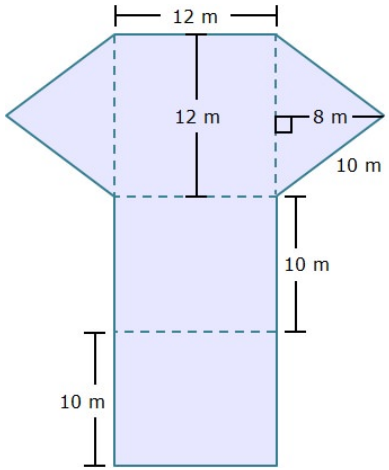


Use the net as an aid to compute the surface area of the triangular prism.

A	192 m^2
B	216 m^2
C	240 m^2
D	300 m^2

Question 105 : 2000709

A net of a triangular prism is shown below.

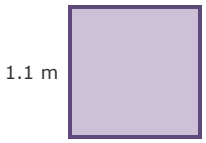


What is the surface area, in square meters, of the triangular prism?

$\square$ m^2

Question 106 : 2000678

The square shown represents the base of a rectangular prism.



The height of the prism is 5 meters. What is the volume of the prism in cubic meters?

$V = \square$ m^3

Question 107 : 2024914

Mia bought a new piece of carry-on luggage, shown below. It is basically shaped like a rectangular prism.



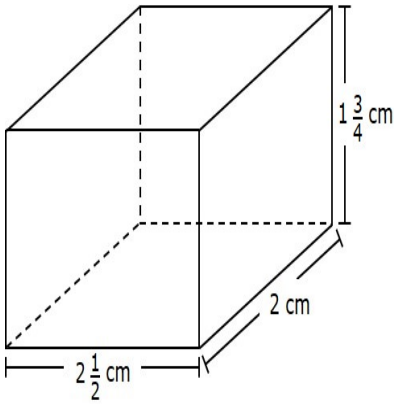
Use the formula $V = Bh$ to find the volume of Mia's carry-on luggage.

Note: $B =$ the area of the base of the rectangular prism and $h =$ the height of the rectangular prism.

A	$1,604\ in^3$	B	$7,640\ in^3$	C	$1,568\ in^3$	D	$1,764\ in^3$

Question 108 : 618098

Cubes with edge lengths of $\frac{1}{4}$ cm will be packed into the right rectangular prism shown.

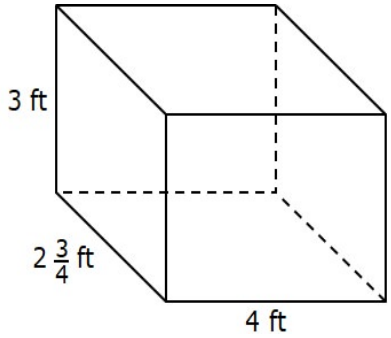


How many $\frac{1}{4}$ cm cubes are needed to completely fill the rectangular prism?

A	170
B	560
C	180
D	280

Question 109 : 618104

A rectangular prism is shown below.

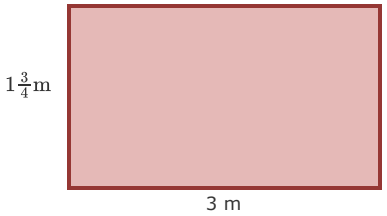


How many $\frac{1}{4}$ foot cubes are needed to completely fill the rectangular prism?

A	2,112
B	132
C	528
D	264

Question 110 : 2000679

The rectangle shown represents the base of a rectangular prism. Its dimensions are $1\frac{3}{4} \times 3$ m.



The height of the prism is 8 meters. What is the volume of the prism in cubic meters?

Question 111 : 33228

Which expression is equivalent to 5^6?

A	$5 \times 5 \times 5 \times 5 \times 5 \times 5$
B	$6 \times 6 \times 6 \times 6 \times 6$
C	6×5
D	$\frac{5}{6}$

Question 112 : 2027581

Which expression is equivalent to the one below?

$$\frac{2}{3} \times \frac{2}{3} \times \frac{2}{3} \times \frac{2}{3}$$

A	$(4)^{\frac{2}{3}}$
B	$4 \times \frac{2}{3}$
C	$\left(\frac{2}{3}\right)^{4}$
D	$\frac{4}{\frac{2}{3}}$

Question 113 : 2019925
Simplify the following expression.

$5^3 = \square$

Question 114 : 781
Which expression is equivalent to the value 64?

A	3^4
B	6^4
C	2^8
D	8^2

Question 115 : 2019926
Simplify the following expression.

$3^4 = \square$

Question 116 : 618172
What is the least common multiple of 4 and 6?

A	12
B	4
C	2
D	24

Question 117 : 67407
Which equation demonstrates the distributive property?

A	60 + 18 = 78
B	60 x 18 = 18 x 60
C	60 + 18 = 6(10 + 3)
D	(10 + 3)6 = 6(10 + 3)

Question 118 : 495671
Find the GCF of the two numbers, and rewrite the sum of the two numbers using the distributive property.

45 + 18

A	9(5 + 2)
B	9 + (5 + 2)
C	3(15 + 6)
D	3 + (15 + 6)

Question 119 : 495670
Find the GCF of the two numbers, and rewrite the sum of the two numbers using the distributive property.

30 + 42

A	3(10 + 14)
B	3 + (10 + 14)

C	6(5 + 7)
D	6 + (5 + 7)

Question 120 : 618169
What is the least common multiple of 8 and 6?

A	2
B	16
C	24
D	8

Question 121 : 2027709
An expression is shown.

$$8x + 15y + 6 + 7y + 3x$$

Move all applicable words into the columns to describe the parts of the expression. Not all words will be used, and each column should have at least one word to describe it.



coefficient | term | factor | sum | quotient | product

Question 122 : 2027708
An expression is shown.

$$5n + 13 + 9p + 11n + 14p$$

Move all applicable words into the columns to describe the parts of the expression. Not all words will be used, and each column should have at least one word to describe it.



coefficient | term | factor | sum | quotient | product

Question 123 : 618008
Which phrase is a description of $3k + 2$?

A	3 times the sum of *k* and 2
B	2 more than the quotient of 3 and *k*
C	2 more than 3 more than *k*
D	2 more than 3 times *k*

Question 124 : 465449
Which expression represents the phrase?

"The product of 5 and 6 reduced by t."

A	5 – 6t
B	5(6 – t)
C	5(6 + t)
D	5 + 6t

Question 125 : 465430
Which expression represents the phrase?

"A number x increased by 6, and then doubled."

A	2x + 6
B	2x – 6

C	2(x + 6)
D	2(6 – x)

Question 126 : 618024

The perimeter of a square with a side length of x is $4x$.

What is the perimeter, in inches, of a square when $x = 16$ inches?

A	32
B	64
C	16
D	40

Question 127 : 32890

Evaluate if $x = 2$.

$$9x + 13$$

A	5
B	18
C	24
D	31
E	44

Question 128 : 1669

If $c = 30$ and $d = 8$, then $2c + 4d =$

A	512
B	278
C	136
D	92
E	28

Question 129 : 238555

Given that the area of a triangle is given by the formula A = $\frac{1}{2}$bh, what is the value of A if b = 4 cm and h = 6 cm?

A	$6\ \text{cm}^2$
B	$12\ \text{cm}^2$
C	$24\ \text{cm}^2$
D	$48\ \text{cm}^2$

Question 130 : 618030

What is the value of

$\frac{p}{4} + pq$

when $p = 8$ and $q = 6$?

A	48
B	32
C	16
D	50

Question 131 : 600361

Which two expressions are equivalent?

A	$(12 – x) – 7$ and $12 – (x – 7)$
B	$(16 + x) \div 8$ and $16 + (x \div 8)$

C	(13 + *x*) • 5 and 13 + (*x* • 5)
D	(11 + *x*) + 4 and 11 + (*x* + 4)

Question 132 : 600364
Which **two** expressions are equivalent to *x* • 43?

A	(*x* • 40) + 3
B	(*x* • 4) + 3
C	*x* • (40 + 3)
D	(*x* • 4) • 3
E	(*x* • 40) + (*x* • 3)

Question 133 : 2027571
Choose the THREE expressions that are equivalent to $30x + 21y$.

- ☐ $2\,(12x + 9y) + 6x + 3y$
- ☐ $5(6x + 21y)$
- ☐ $3(7y + 10x)$
- ☐ $3(10x + 8y)$
- ☐ $10x + 2x + 6y + 11y + 4x + 18x$
- ☐ $17y + y + 9x + 8x + 3y + 13x$

Question 134 : 600356

60 ÷ (6 + *w*)

Which expression is equivalent to the expression shown above?

A	(6 + *w*) ÷ 60
B	60 ÷ 6 + 60 ÷ *w*
C	(6 ÷ 60) + *w*
D	60 ÷ (*w* + 6)

Question 135 : 2027574
An expression is shown.

$$4\,(x + 4) + 2\,(3x + 1)$$

Move all of the expressions that are equivalent to the given expression into the box.

Equivalent to $4\,(x + 4) + 2\,(3x + 1)$

$10x + 18$ | $4\,(2x + 3) + 8x + 4$ | $9x + 19$ | $2\,(5x + 9)$ | $3\,(3x + 4) + x + 6$ | $5\,(2x + 18)$

Question 136 : 2027813
An inequality is shown.

$$18.4 \leq x + 5.6$$

Which list of values for x will make this inequality true?

A	$12, 12.5, 12.8$
B	$12.2, 13.2, 15$
C	$11.2, 12, 12.3$
D	$12.8, 13, 14.2$

Question 137 : 2027818
An inequality is shown.

$$8h < 36$$

Which list of values for h will make this inequality true?

A	$2, 4, 4.5$
B	$4.5, 6, 7$
C	$2.5, 3, 4.1$
D	$5, 8, 9.5$

Question 138 : 2027718
An equation is shown.

$$\frac{3}{4} + c = 6$$

Which value for c will make this equation true?

A	$5\frac{1}{4}$
B	$5\frac{3}{4}$
C	$6\frac{1}{4}$
D	$6\frac{3}{4}$

Question 139 : 600956

$$\frac{x}{8} = -12$$

What value from the set $\{-96, 96, -4, 4\}$ makes this equation true?

A	–96
B	96
C	4
D	–4

Question 140 : 600955

$$x - 14 = 13$$

What value from the set $\{-27, -1, 1, 27\}$ makes this equation true?

A	1
B	–1
C	–27
D	27

Question 141 : 2019061
Two brothers, Mark and Jaren, are saving for an All-Star Basketball. The total cost of the All-Star Basketball is $\$107.95$. How much do each of the brothers have to save to equally share the cost?

Choose the equation that can be used to solve for the amount that each brother must save.

A	$\frac{1}{2}x = 107.95$
B	$2x = 107.95$
C	$107.95x = 2x$
D	$107.95x = 2$

Question 142 : 2013882
Cameron and Slater are playing for the championship in their fantasy football league. Before the game, they agree to equally share the prize money from the game regardless of the outcome and sign the agreement, which gives each person $485 in prize money.

If x represents the total prize money from the game, which equation represents this situation?

A	$2x = 485$
B	$\frac{2}{x} = 485$
C	$\frac{485}{x} = 2$
D	$\frac{x}{2} = 485$

Question 143 : 2013848

Omar bought 4 burger combo meals at the basketball concession stand. He paid with a $20 and received changed.

If x represents the cost of one burger combo meal, then drag the correct expression to the first box and the correct symbol to the second box to represent this situation.

$\square\ \square\ 20$

Possible Responses for First Box				Possible Responses for Second Box			
$4x$	$\frac{1}{4}x$	$x-4$	$x+4$	$>$	$<$	$\leq$	$\geq$

Question 144 : 2013860

Batool and Mia sat on one end of a see-saw. Shaq sat on the other end of the see-saw. The see-saw was leaning downward on Shaq's end. Mia weighs 67 pounds and Shaq weighs 142 pounds.

If x represents Batool's weight, then drag the correct expression to the first box and the correct symbol to the second box to represent this situation.

$\square\ \square\ 142$

Possible Responses for First Box				Possible Responses for Second Box			
$67x$	$x-67$	$67-x$	$x+67$	$>$	$<$	$\leq$	$\geq$

Question 145 : 2013835

PART A

Briona mixed up 6 lb of trail mix. She put the trail mix in bags that are $\frac{2}{3}$ lb each. Which equation represents the situation?

A	$\frac{2}{3}(6)=x$
B	$x-\frac{2}{3}=6$
C	$\frac{2}{3}x=6$
D	$\frac{3}{2}x=6$

PART B

How many $\frac{2}{3}$lb bags of trail mix did Briona make?

$\square$ bags

Question 146 : 117027

Ms. Wendie puts 4 chocolate candies in a bag to give each of her students on the first day of class. If she puts a total of 76 chocolate candies in bags, how many students are in her class?

A	19
B	72
C	80
D	304

Question 147 : 522302

Tim was 27 years old 9 years ago. Which equation will tell you how old he is now?

A	x + 9 = 27
B	x − 9 = 27
C	x ÷ 9 = 27
D	9 − x = 27

Question 148 : 522580

Kathryn and three of her friends went out to eat. They decided to split the bill evenly. If each person paid $13, which equation will tell you the total amount of the bill?

A	$\frac{4}{x} = 13$
B	$4x = 13$
C	$\frac{x}{3} = 13$
D	$\frac{x}{4} = 13$

Question 149 : 618070
Valerie bought 6 folders for $5.34.

Which equation can be used to determine the price, *p*, in dollars, of 1 folder?

A	$\frac{p}{5.34} = 6$
B	$\frac{p}{6} = 5.34$
C	$6p = 5.34$
D	$5.34p = 6$

Question 150 : 419022
The Candy Store held a raffle, and Matt won the grand prize. He won a gift card to the store, as well as a bag of giant lollipops. He gave 21 lollipops to his friends, and he kept the remaining 7 lollipops.

Which equation can be solved for n to find the total number of lollipops in the bag?

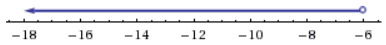
A	$\frac{n}{21} = 7$
B	$n - 21 = 7$
C	$n + 21 = 7$
D	$21n = 7$

Question 151 : 417981
The inequality $x < -5.4$ represents the possible values for x on a number line.

Which is a possible value for x? Why?

A	-7.5 is a possible value for x because -7.5 is less than -5.4, which can be seen on a number line because -7.5 is to the left of -5.4.
B	-4.8 is a possible value for x because -4.8 is less than -5.4, which can be seen on a number line because -4.8 is to the right of -5.4.
C	-3.2 is a possible value for x because -3.2 is greater than -5.4, which can be seen on a number line because -3.2 is to the right of -5.4.
D	5.4 is a possible value for x because 5.4 is the opposite of -5.4, which can be seen on a number line because 5.4 is located the same distance away from 0, but on the opposite side of 0.

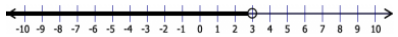
Question 152 : 87034



Identify the inequality graphed on the number line.

A	x - 9 < 3
B	x + 9 < 3
C	x - 9 < -3
D	x + 9 < -3

Question 153 : 419361



Which inequality matches the graph?

A	x > 3
B	x < 3
C	x ≤ 3
D	x ≥ 3

Question 154 : 61927

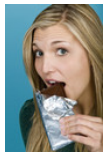


Which inequality statements are represented by the number line graph?

Choose two.

- ☐ $x > 4$
- ☐ $x < 4$
- ☐ $x \geq 4$
- ☐ $4 \leq x$
- ☐ $4 > x$
- ☐ $4 < x$

Question 155 : 618086

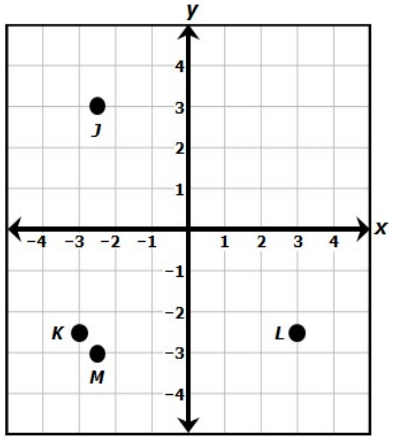


Rowan bought *c* candy bars and her brother took 15 of the candy bars. Rowan had more than 3 candy bars left. Which inequality represents *c*, the number candy bars Rowan bought?

A	$c > 18$
B	$c < 18$
C	$c > 12$
D	$c < 12$

Question 156 : 601116

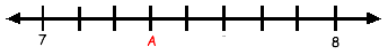
The coordinate grid shows points *J*, *K*, *L*, and *M*.



Which ordered pair best represents point *M*?

A	(–2.5,–3)
B	(3,–2.5)
C	(–3,–2.5)
D	(–2.5,3)

Question 157 : 798

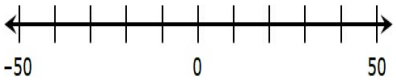


Which number best represents the location of point A on the number line shown?

A	-7.5
B	$7\frac{3}{10}$
C	$7\frac{3}{8}$

D	$7\frac{3}{7}$
E	7.67

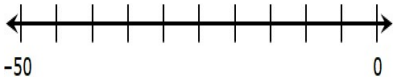
Question 158 : 600093
LeAnn will correctly label the numbers –12, –30, 43, and 14 on the number line below.



Which number will be located closest to 0?

A	–30
B	–43
C	–12
D	14

Question 159 : 600094
Vaughn will correctly label the numbers –40, –15, –33, and –17 on the number line below.



Which number will be located closest to 0?

A	–15
B	–17
C	–40
D	–33

Question 160 : 33474



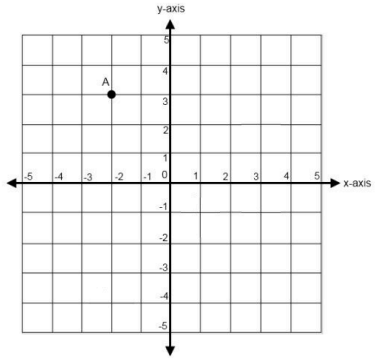
What is a good estimation of point C?

A	2.75
B	3.25
C	3.5
D	3.75
E	3.9

Question 161 : 1545144
Point Reflections

Which statement describes the reflection of point A over the x-axis on the coordinate plane?

A	When a point is reflected over the x-axis, the x sign changes and the y sign changes.
B	When a point is reflected over the x-axis, the x sign remains the same and the y sign changes.

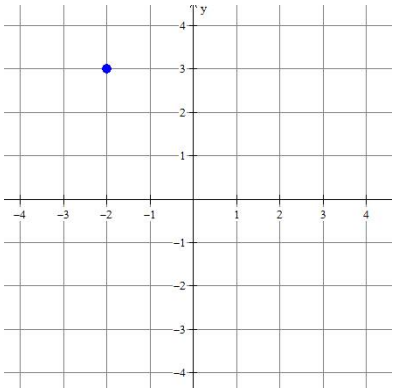


C	When a point is reflected over the x-axis, the y sign remains the same and the x sign changes.
D	When a point is reflected over the x-axis, the x sign remains the same and the y sign remains the same.

Which statement describes the reflection of point A over the y-axis on the coordinate plane?

A	When a point is reflected over the y-axis, the y sign changes and the x sign changes.
B	When a point is reflected over the y-axis, the y sign remains the same and the x sign changes.
C	When a point is reflected over the y-axis, the x sign remains the same and the y sign changes.
D	When a point is reflected over the y-axis, the y sign remains the same and the x sign remains the same.

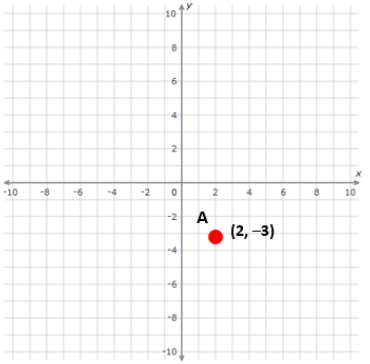
Question 162 : 39356



In which quadrant does the point that is graphed lie?

A	I
B	II
C	III
D	IV

Question 163 : 451071



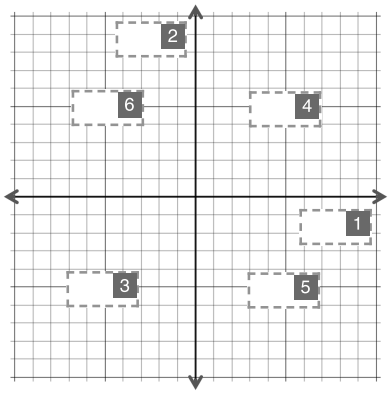
If point A is reflected across the y-axis, which pair of coordinates represents the reflection?

A	(2, 3)
B	(−2, 3)
C	(−3, 2)
D	(−2, −3)

Question 164 : 2031653

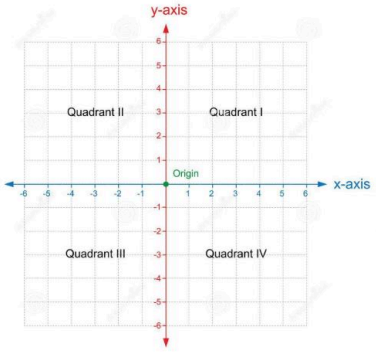
A coordinate plane is shown below.

Drag the correct label to each axis.
Drag the correct representation of the signs of the ordered pairs into each quadrant.



$(-,+)$ $(+,-)$ $(+,+)$ $(-,-)$ x y

Question 165 : 397747

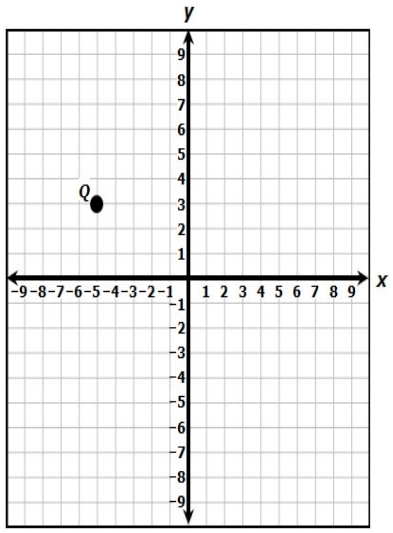


In which quadrant is both x and y positive?

A	Quadrant I
B	Quadrant II
C	Quadrant III
D	Quadrant IV

Question 166 : 601103

Lucinda graphed point *Q* on the coordinate grid. She will graph point *R* at a location 4 units away from point *Q*.



Which ordered pair could represent the location of point *R*?

A	(–1,3)
B	(–5,4)
C	(–9,–1)
D	(–5,1)

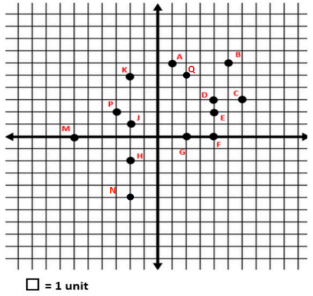
Question 167 : 50535

Two points are plotted in the coordinate plane at (-3, 7) and (-3, -9). What is the distance between them?

A	-2
B	2
C	6
D	16

Question 168 : 2019087

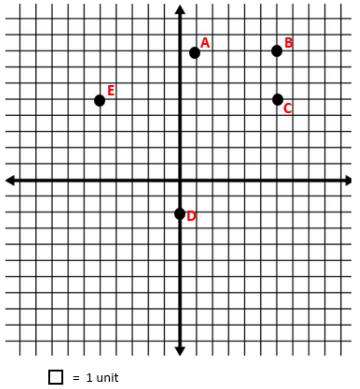
Look at the graph below.



Find the distance between point **K** and point **Q.**

A	4
B	2
C	9
D	5

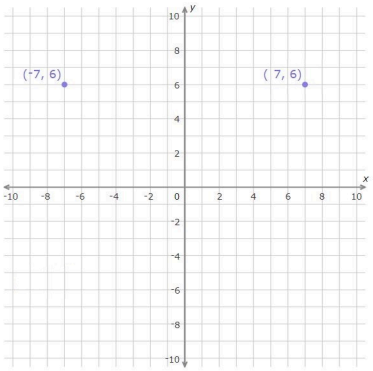
Question 169 : 427993



Find the distance between point A and point B.

A	5	B	6	C	8	D	9

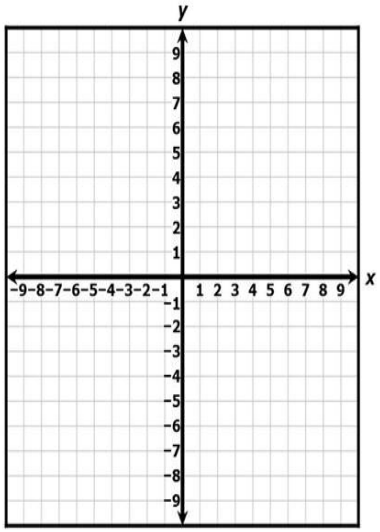
Question 170 : 418310



Find the distance between the points (−7, 6) and (7, 6).

A	6	B	12	C	13	D	14

Question 171 : 618115



Laura drew a parallelogram on a coordinate plane. Which of the following coordinates could be the vertices of Laura's parallelogram?

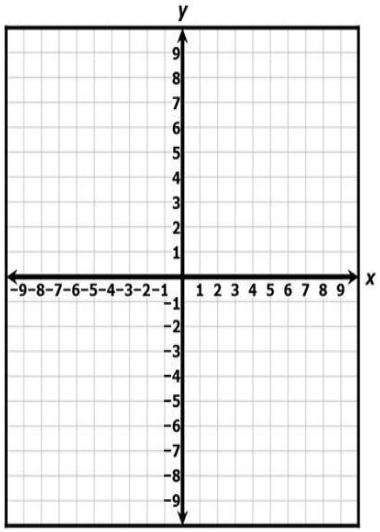
(choose 4)

A	(1, 2)
B	(4, 8)
C	(-3, 8)
D	(-6, 2)
E	(-3, 3)
F	(1, 6)

Question 172 : 618109

Jack drew quadrilateral with exactly one pair of parallel sides in a coordinate plane, and three of its vertices are listed below.

(4, 2) (-5, 2) (-3, 6)



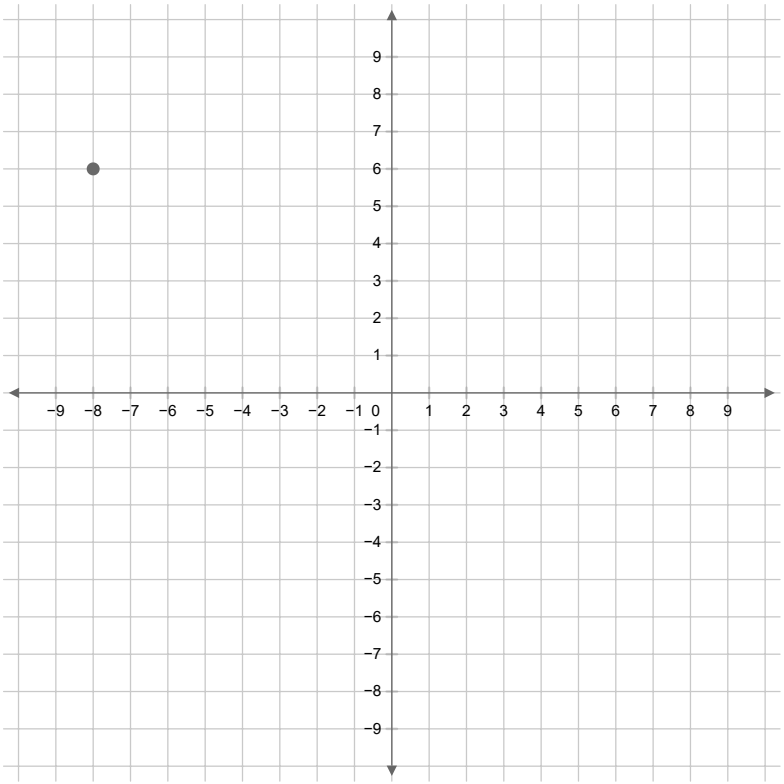
Which ordered pair could represent the fourth vertex of this quadrilateral?

A	(4, 5)
B	(1, 6)
C	(6, 1)
D	(1, -7)

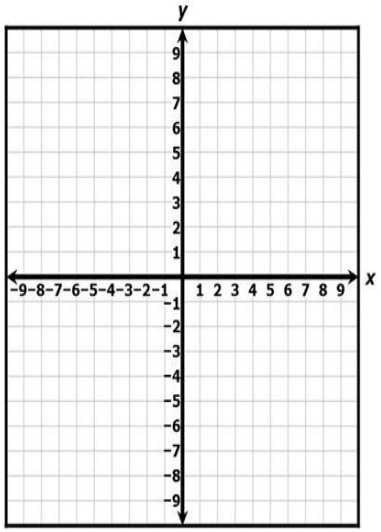
Question 173 : 2024927

Cameron drew a rectangle that lies in all four quadrants. One vertex is at $(-8, 6)$ and another vertex is at $(-8, y)$. One side of the rectangle is 9 units and the rectangle has an area of 117 units squared.

Draw a rectangle that could be the rectangle that Cameron drew.



Question 174 : 618112



Kassie drew a rectangle on a coordinate plane. Which of the following coordinates could be the vertices of Kassie's rectangle? ***(choose 4)***

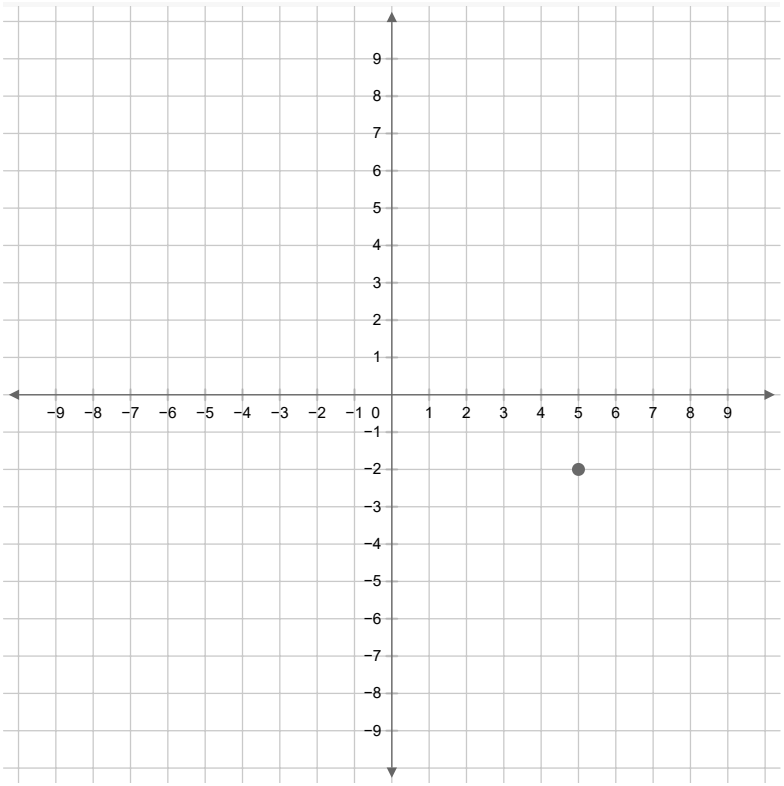
A	(-6, -1)
B	(-6, 5)
C	(2, -1)
D	(2, 4)
E	(2, 5)
F	(0, 5)

Question 175 : 2025328

Danika drew a parallelogram in a coordinate plane.

- The parallelogram had no right angles.
- The parallelogram is only located in quadrants III and IV.
- The longest sides of the parallelogram are 9 units long and they are parallel to the x-axis.
- A vertex of one of the longest sides of the parallelogram is $(5, -2)$.
- A vertex of the other longest side of the parallelogram is $(1, -7)$

Draw a parallelogram that could be the parallelogram that Danika drew.


9
8
7
6
5
4
3
2
1
−9 −8 −7 −6 −5 −4 −3 −2 −1 0 1 2 3 4 5 6 7 8 9
−1
−2
−3
−4
−5
−6
−7
−8
−9