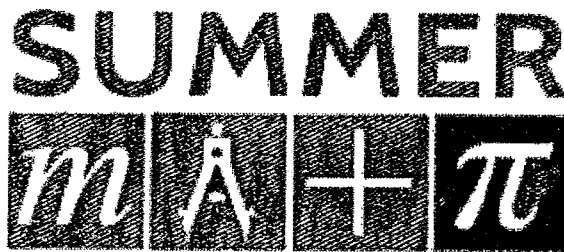


This Summer Math Packet is for all students who will be entering 5th grade accelerated.

Please Note: This packet contains two sections. The first section is a review of grade 5 concepts. The second section is readiness for grade 6 math content.

This packet should be completed prior to the start of school and will be collected during the first week of school.



The following table shows the times of four students who ran the 50-yard dash in their physical education class. The students are listed in alphabetical order. Who ran the dash in the slowest time?

Student	Time (in seconds)
Adam	7.945
Christy	7.717
Gloria	7.924
Joji	7.752

- A Christy
- B Joji
- C Adam
- D Gloria

This table shows the weight in pounds of Vick's kitten at the end of each week after the kitten's birth. If the pattern in the table continues, what will be the weight of the kitten at the end of the sixth week?

Week	1	2	3	4	5	6
Weight	0.46	0.55	0.64	0.73		

- A 0.81 pounds
- B 0.85 pounds
- C 0.89 pounds
- D 0.91 pounds

Which picture represents the problem?

At the beginning of a cake sale, there were 72 cakes. In the morning, 43 cakes were sold. When the cake sale was over, 17 more cakes had been sold. How many cakes were left when the cake sale was over? Use x to represent the unknown number.

A

72		
43	17	x

B

x		
72	43	17

C

72		17
43	x	

D

$72 + x$		
43	17	

A ride at an amusement park has 18 cars. If each car holds 6 people, what is the total number of people the ride can hold?

- A 216 people
- B 108 people
- C 54 people
- D 37 people

A cardboard box with equal sides 5 inches long has a volume of 5^3 cubic inches. Which of the following is equal to 5^3 ?

- A 15
- B 75
- C 125
- D 243

A company wants to order 140 light bulbs. The light bulbs come in boxes of 16. How many boxes will the company have to order?

- A 9 boxes
- B 8 boxes
- C 7 boxes
- D 6 boxes

Which is 2.4×10^{-3} written in standard notation?

- A 2.40
- B 240
- C .024
- D .0024

If Dave reads an average of 36 books a year for 7 years, he will read 36×7 books. Which of the following is equal to 36×7 ?

- A $(30 + 7) - (6 + 7)$
- B $(30 + 7) \times (6 + 7)$
- C $(30 \times 7) - (6 \times 7)$
- D $(30 \times 7) + (6 \times 7)$

Alan, Denise, Paco, and Samantha have a total of \$39 to spend at the movies. It will cost them \$6 a piece for a total of \$24 for tickets. They can spend the rest on juice drinks and popcorn. They plan to spend twice as much on juice drinks as on popcorn. How much do they plan to spend on juice drinks?

- A \$9
 - B \$10
 - C \$12
 - D \$15
-

Sarah is planting a vegetable garden that has an area of 220.5 square feet. She wants to fill 0.3 of the garden with green beans. How many square feet will she use for green beans?

- A 92.33 square feet
- B 66.15 square feet
- C 9.232 square feet
- D 6.615 square feet

The Castillo family has to drive 582 miles to visit a relative. There are 3 drivers in the car, so they want to break up the trip into three equal parts. What is a reasonable number of miles for each part?

- A 194, because $582 \div 3$ is about $600 \div 3 = 200$
- B 168, because $582 \div 3$ is about $510 \div 3 = 170$
- C 148, because $582 \div 3$ is about $600 \div 4 = 150$
- D 144, because $582 \div 3$ is about $560 \div 4 = 140$

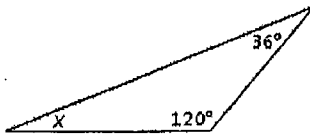
Ira wants to move 60.36 pounds of wood, but it's too heavy. He decides to divide his wood into 4 piles that each weigh the same amount. How many pounds will each pile weigh?

- A 15.9 pounds
- B 15.59 pounds
- C 15.09 pounds
- D 1.59 pounds

For an art project, Corinne and Amelia want to combine their colored pens and distribute them evenly among 12 first graders. If Corinne has 84 colored pens and Amelia has 72 colored pens, how many pens will each first grader get?

- A 6 pens
 - B 8 pens
 - C 12 pens
 - D 13 pens
-

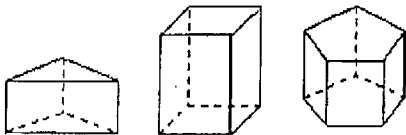
What is the measure of the unknown angle?



- A 24°
- B 34°
- C 180°
- D 204°

i Which rule describes how many faces a prism has when the shape of its base has n sides?

Type of Prism	Number of Sides, n	Faces of Prism
Triangular	3	5
Rectangular	4	6
Pentagonal	5	7
Hexagonal	6	8



- A $n \times 2$
- B $n - 2$
- C $n + 2$
- D $n + 2$

Find all the factors of 16 and state whether the number is prime or composite.

- A 1, 4, 12, 16; composite
- B 1, 16; prime
- C 1, 2, 4, 8, 16; composite
- D 1, 2, 4, 8, 16; prime

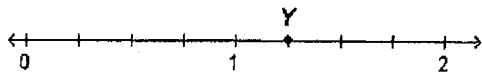
Cheryl has \$20 bills and \$10 bills in her wallet. The total value of the bills is \$90. She has 3 more \$10 bills than \$20 bills. How many of each kind of bill does Cheryl have?

- A one \$20 bill and four \$10 bills
- B two \$20 bills and five \$10 bills
- C three \$20 bills and six \$10 bills
- D four \$20 bills and seven \$10 bills

Which is the missing number in $\frac{1}{3} = \frac{?}{12}$?

- A 6
- B 4
- C 3
- D 2

Which two numbers are shown by point Y on the number line?



- A $1\frac{1}{3}, 1.3$
- B $1\frac{1}{10}, 1.1$
- C $1\frac{1}{4}, 2.5$
- D $1\frac{1}{4}, 1.25$

Glenn made a loaf of banana nut bread for a picnic. He used $\frac{1}{2}$ cup fewer nuts than in the recipe. If the recipe called for $\frac{5}{8}$ cup of nuts, what amount of nuts did Glenn use?

- A $\frac{1}{3}$ cup
- B $\frac{5}{8}$ cup
- C 1 cup
- D $\frac{4}{3}$ cup

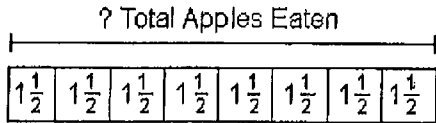
Lisa played soccer for $2\frac{3}{4}$ hours on Saturday and for $1\frac{3}{5}$ hours on Sunday. How many hours did she play soccer during the weekend?

- A $3\frac{2}{3}$ hours
- B $4\frac{5}{8}$ hours
- C $4\frac{7}{20}$ hours
- D $3\frac{3}{10}$ hours

Which of the following is equal to $\frac{4}{11} \div \frac{8}{9}$?

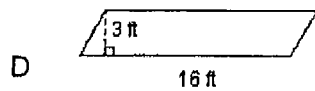
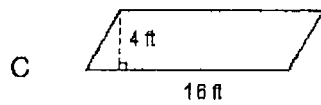
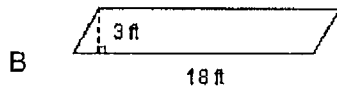
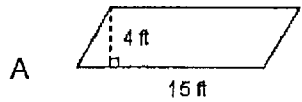
- A $\frac{9}{8} \div \frac{4}{11}$
 - B $\frac{4}{11} \times \frac{9}{8}$
 - C $\frac{4}{9} + \frac{11}{4}$
 - D $\frac{9}{11} \times \frac{8}{4}$
-

Alison eats $1\frac{1}{2}$ apples each day. Which equation can be used to find b , the number of apples she will eat in 8 days?



- A $1\frac{1}{2} \times b = 8$
- B $8 \times b = 1\frac{1}{2}$
- C $8 + 1\frac{1}{2} = b$
- D $1\frac{1}{2} \times 8 = b$

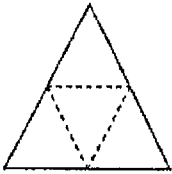
Lois wants to buy a piece of cloth to make a shirt. Which cloth has the greatest area?



Celia is planning a rectangular flower garden. She has 64 feet of fencing and wants to use all of it to enclose a garden with the greatest possible area. Which dimensions will give her garden the greatest possible area?

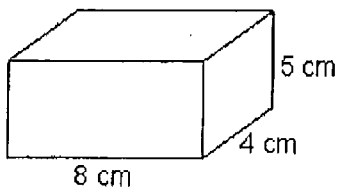
- A 14 feet by 18 feet
- B 16 feet by 16 feet
- C 12 feet by 20 feet
- D 8 feet by 24 feet

Which solid figure can be formed with this net?



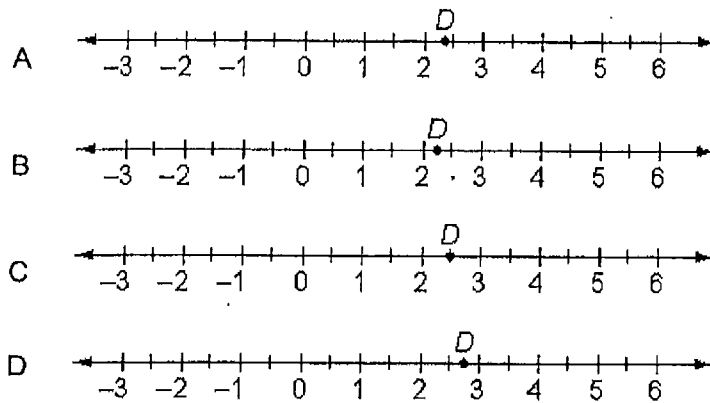
- A cone
- B rectangular prism
- C triangular pyramid
- D triangular prism

What is the volume of the rectangular prism?



- A 17 cm^3
- B 60 cm^3
- C 120 cm^3
- D 160 cm^3

Which number line shows point D at $2\frac{1}{4}$?



Ibrahim had \$503 in his bank account after his first art sale. He sold \$325 worth of paintings. If it cost him \$50 for his space at the sale and he spent \$25 on refreshments during the sale, how much money was in his account before the art sale?

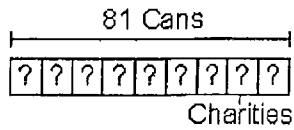
- A \$103
- B \$153
- C \$178
- D \$253

The table shows the number of words, w , that Eric read in m minutes. Which equation could be used to represent the relationship in the table?

Number of Minutes, m	Number of Words, w
1	125
2	250
3	375

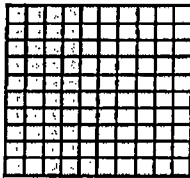
- A $w = m + 124$
- B $w = \frac{125}{m}$
- C $w = \frac{m}{125}$
- D $w = 125m$

Felicia is distributing 81 cans of food evenly among 9 local charities. Which equation can be used to find g , the number of cans Felicia can distribute to each charity?



- A $g + 81 = 9$
- B $81g = 9$
- C $81 = 9g$
- D $\frac{g}{81} = 9$

About 43% of Americans regularly vote. What is the ratio of Americans who regularly vote to all Americans?

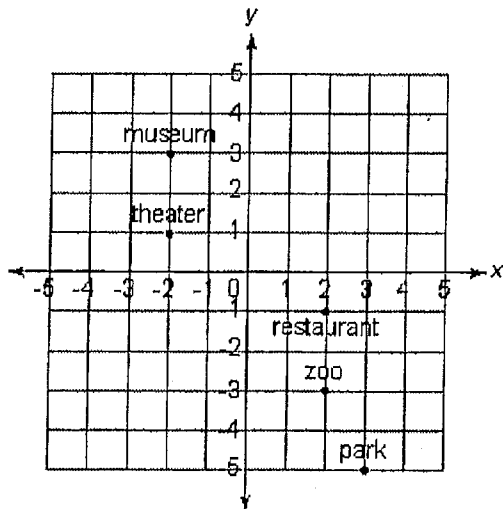


- A $\frac{43}{57}$
- B $\frac{43}{100}$
- C $\frac{100}{43}$
- D $\frac{57}{43}$

Which of the following can be used to find 45% of 112?

- A Multiply 1.12 by 0.45.
 - B Multiply 112 by 0.45.
 - C Multiply 112 by 0.45 and 100.
 - D Multiply 100 by 45.
-

The grid map shows the location of some places in Remigio's neighborhood. What are the coordinates of the park?



- A (3, 5)
- B (-5, 3)
- C (-3, 5)
- D (3, -5)

To get to Amala's house, Tara walks 4 blocks east (right), then 3 blocks north (up), and then 2 blocks east. Amala's house has coordinates (9, 9). What are the coordinates of Tara's starting point?

- A (3, 6)
- B (2, 6)
- C (6, 3)
- D (3, 12)

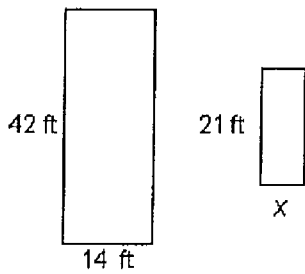
Which data set has a mean of 6?

- A 2, 2, 8, 4, 9
- B 6, 6, 5, 10, 6
- C 4, 7, 7, 7, 5
- D 1, 10, 6, 5, 2

What is the value of the expression $2 + (3 \times 7) - (24 \div 8)^2$?

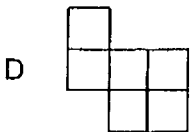
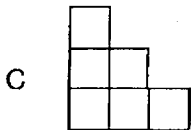
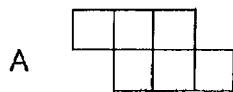
- A 7
- B 14
- C 17
- D 26

The rectangles shown are similar. What is the width x ?



- A 2 feet
- B 3.5 feet
- C 5 feet
- D 7 feet

Each figure is made from 6 squares. Which figure does not have a perimeter of 12 units?



Name: _____

Date: _____

In the number 8,234,091,257, which digit is in the billions place?

- A 1
- B 8
- C 2
- D 4

Which set of numbers is in order from greatest to least?

- A 7.38, 7.594, 7.598
- B 7.594, 7.38, 7.598
- C 7.38, 7.598, 7.594
- D 7.598, 7.594, 7.38

Kate used estimation to find the difference between two numbers. Which difference is about 20?

- A $33.2 - 28.4$
- B $70.3 - 59.7$
- C $75.7 - 55.6$
- D $42.5 - 16.8$

What is the sum of 7.535 and 29.02?

- A 10.437
- B 26.555
- C 36.555
- D 104.37

There are 39 classrooms at a school. There are 23 students in each classroom. How many students are there in all?

- A 165 students
 - B 62 students
 - C 968 students
 - D 897 students
-

A field is being divided into 3-acre lots for houses. If there are a total of 930 acres, how many lots can be created?

- A 300 lots
- B 330 lots
- C 320 lots
- D 310 lots

A group of people paid a total of \$578 for tickets to a basketball game. If the tickets were \$34 each, how many people were in the group?

- A 13 people
- B 17 people
- C 19 people
- D 21 people

What is 8.17×3.37 ?

- A 24.69
- B 26.961
- C 24.96
- D 2.696

Find the quotient of $72.86 \div 7.1$. Round to the nearest hundredth.

- A 1,026.2
- B 10.26
- C 102.61
- D 1.03

A child's ticket for a movie costs \$3 less than an adult's ticket. If a represents the cost of an adult's ticket, which expression represents the cost of a child's ticket?

- A $a - 3$
 - B $3 + a$
 - C $3a$
 - D $3 - a$
-

Andy made a loaf of cranberry nut bread for a picnic. He used $\frac{1}{3}$ cup fewer nuts than in the recipe. If the recipe called for $\frac{5}{8}$ cup of nuts, what amount of nuts did Andy use?

- A $\frac{1}{2}$ cup
- B $\frac{7}{24}$ cup
- C 1 cup
- D $\frac{23}{24}$ cup

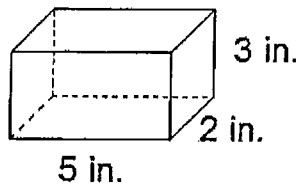
Anna played tennis for $2\frac{1}{4}$ hours on Saturday and for $1\frac{4}{5}$ hours on Sunday. How many hours did she play tennis during the weekend?

- A $3\frac{2}{3}$ hours
- B $4\frac{1}{20}$ hours
- C $4\frac{7}{20}$ hours
- D $3\frac{3}{10}$ hours

What is $\frac{3}{7} \times \frac{2}{5}$?

- A $\frac{5}{12}$
 - B $\frac{6}{35}$
 - C $\frac{1}{2}$
 - D $\frac{5}{35}$
-

What is the volume of the rectangular prism?



- A 10 in.³
- B 15 in.³
- C 30 in.³
- D 60 in.³

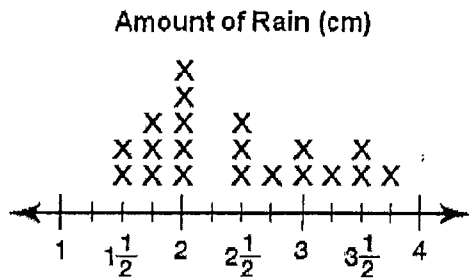
Volunteers at a nature preserve measured tree saplings. The chart below shows the name of each volunteer and the height of the tree he or she measured.

TREE SAPLING HEIGHTS	
Name of Volunteer	Height of Tree
Adam	2 yards
Kevin	76 inches
Wanda	5 feet 9 inches
Nora	2 feet 5 inches

Which volunteer measured the shortest tree?

- A Kevin
- B Adam
- C Wanda
- D Nora

The line plot below gives the amount of rain that fell in different towns during a rainstorm.



What is the difference between the greatest amount of rain that fell and the least amount?

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

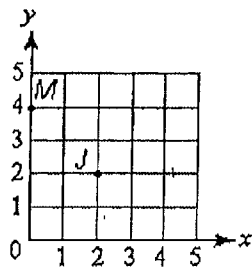
Hae-Young is collecting data on her classmates' favorite and least favorite subject. Which of the following is the best survey question for Hae-Young to use to collect her data?

- A What is your least favorite subject?
- B Is your least favorite subject math or science?
- C Is your favorite subject English or art?
- D What is your favorite and least favorite subject?

Which quadrilateral has only one pair of parallel sides?

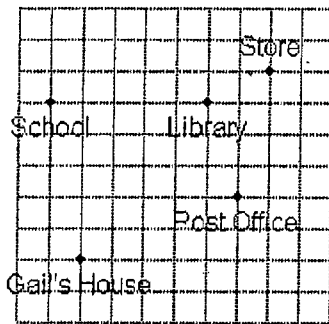
- A rectangle
- B trapezoid
- C rhombus
- D parallelogram

What is the ordered pair for point M on the graph?



- A (4, 0)
- B (2, 0)
- C (2, 2)
- D (0, 4)

How far is it from school to Gail's house if each unit represents 1 block?



- A 3 blocks
- B 4 blocks
- C 5 blocks
- D 6 blocks

Which of the following is equal to $\frac{17}{1000}$?

- A 0.0017
- B 0.17
- C 0.017
- D 17

This table shows the amount of gasoline Mr. Bertrand's car uses after each mile he drives on a highway. If the pattern continues, how much gasoline will the car use after going 9 miles?

Mile	1	2	3	4
Gasoline Used	0.04	0.08	0.12	0.16

- A 0.32 gallons
- B 0.36 gallons
- C 0.40 gallons
- D 0.44 gallons

Irene swam the three fastest times in the 50-meter dash event. Her times were 17.31 seconds, 17.65 seconds, and 18.12 seconds. What is the difference, in seconds, between her two fastest times?

- A 0.34 second
- B 0.81 second
- C 0.47 seconds
- D 1.47 seconds

$$657 \times 93 =$$

- A 33,011
- B 43,110
- C 51,101
- D 61,101

If Adam drinks an average of 12 glasses of milk a week for 6 weeks, he will drink about 12×6 glasses of milk. Which of the following is equal to 12×6 ?

- A $(10 + 6) - (2 + 6)$
- B $(10 \times 6) + (2 \times 6)$
- C $(10 \times 6) \times (2 \times 6)$
- D $(10 + 6) \times (2 + 6)$

Which of the following is the best estimate of $913 \div 5$?

- A 180
- B 200
- C 210
- D 240

Milly has been saving money to take drum lessons in the summer. So far she has saved \$287. If each lesson costs \$27, about how many lessons can she take with the amount saved so far?

- A 5 lessons
- B 10 lessons
- C 15 lessons
- D 20 lessons

A truck is transporting 42 containers that weigh 18.3 pounds each. What is the total weight the truck is transporting?

- A 768.6 pounds
- B 7,686 pounds
- C 76,860 pounds
- D 768,600 pounds

What is $91.37 \div 10$?

- A 0.009137
- B 0.09137
- C 0.9137
- D 9.137

Which expression represents the phrase "the cost of p pounds of rice at \$1.97 per pound"?

- A $\$1.97 + p$
 - B $\$1.97 - p$
 - C $\$1.97 \div p$
 - D $\$1.97p$
-

Delila has 15 more cards than Frank, who has c cards. Evaluate the expression $c + 15$ for $c = 11$ to find how many cards Delila has.

- A 26
- B 15
- C 11
- D 4

Which two fractions are equivalent to $\frac{2}{3}$?

- A $\frac{10}{15}, \frac{16}{24}$
- B $\frac{20}{30}, \frac{35}{45}$
- C $\frac{14}{18}, \frac{25}{30}$
- D $\frac{24}{30}, \frac{22}{33}$

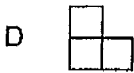
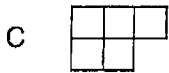
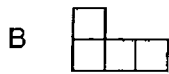
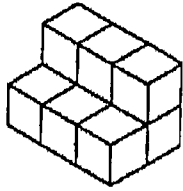
Rainfall in Atlanta averages $4\frac{7}{10}$ inches in October and $1\frac{3}{10}$ inches in November. How much higher is the rainfall in October?

- A $3\frac{4}{10}$ inches
- B $2\frac{4}{10}$ inches
- C $2\frac{1}{10}$ inches
- D $3\frac{1}{10}$ inches

Cindy has to write an 18-page report. If she has written $\frac{1}{3}$ of her report so far, how many pages has she written?

- A 4 pages
 - B 6 pages
 - C 8 pages
 - D 9 pages
-

Which is a side view of the solid figure below?



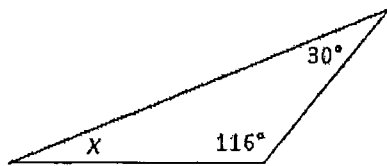
Tom is purchasing a 7-pound bag of dog food. How many 8-ounce servings can he feed his dog? (1 lb = 16 oz)

- A 5 servings
- B 10 servings
- C 14 servings
- D 40 servings

Which measurement is NOT equal to 4.3 meters?




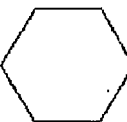
- A 0.0043 kilometers
 - B 4.30 meters
 - C 43 centimeters
 - D 4,300 millimeters
-

What is the measure of the unknown angle?



- A 34°
- B 44°
- C 146°
- D 180°

Which polygon is a pentagon?

- A 
- B 
- C 
- D 

Points A–C follow the pattern down 3, right 4. If point A is (1, 6), then what is point C?

- A (7, 14)
 - B (9, 0)
 - C (4, 1)
 - D (5, 3)
-