

# SUMMER MATH PACKET

## INCOMING 4<sup>TH</sup> GRADERS



Name: \_\_\_\_\_

Parent Signature: \_\_\_\_\_

Bri drew a picture. Choose all of the equations that represent Bri's picture.



- $1 + 1 + 1 + 1 = 4$
- $4 + 4 + 4 = 12$
- $4 + 4 + 4 + 4 = 16$
- $4 \times 2 = 8$
- $4 \times 4 = 16$

Frances has 3 boxes of books with 6 books in each box. Draw an array to show the books. Find the total number of books.

Omar uses repeated subtraction to find  $54 \div 6$ . How many groups of 6 does Omar subtract?

Lance is putting 2 apple slices on each of 6 salads. What is the total number of apple slices? Show the problem on a number line. Then write the answer.

 apple slices

Mikael solves a multiplication problem by drawing jumps on a number line. Which multiplication equation does his number line show?



Zander has 21 basketballs that he wants to put into 2 different racks. Can there be equal groups of basketballs with no basketballs remaining? Why or why not?

At the fair, tickets are \$6 for each adult and \$5 for each child. 5 adults and 3 children attend the fair. What is the total cost of their tickets?

A garden has 9 rows of tomato plants. There are 8 plants in each row. How many tomato plants are there?

Mrs. Applegate wrote five equations on the board. Which of the equations did she write correctly? Choose all that apply.

- $14 \times 0 = 14$
- $23 \times 1 = 23$
- $87 \times 0 = 0$
- $89 \times 1 = 90$
- $19 \times 0 = 0 \times 19$

Miriam has 3 packages of pencils. Each package has 10 pencils. How many pencils does Miriam have?

Choose the greatest product.

- (A)  $10 \times 1$
- (B)  $2 \times 6$
- (C)  $5 \times 3$
- (D)  $9 \times 0$

Draw lines to connect equal expressions.

$5 \times 1$

$7 \times 0$

$3 \times 0$

$4 \times 5$

$5 \times 4$

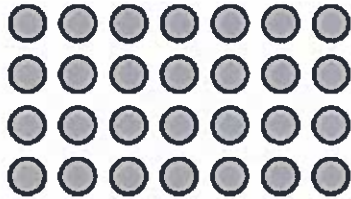
$1 \times 5$

A beaded bracelet has 3 different types of beads. There are 10 of each type of bead. How many beads are in the bracelet?

- (A) 13 beads
- (B) 15 beads
- (C) 20 beads
- (D) 30 beads

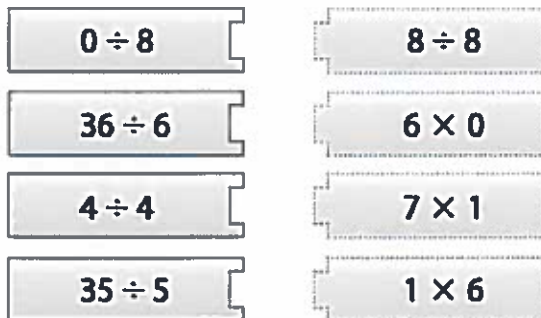
Tamika has 2 pies. She cuts each pie into 6 pieces. How many pieces of pie does Tamika have?

Jamal broke up a large array into a  $3 \times 6$  array and a  $4 \times 6$  array. What was the Tyrone wrote a multiplication fact and a division fact for the array below. Choose all of the equations that show a fact Tyrone could have written.

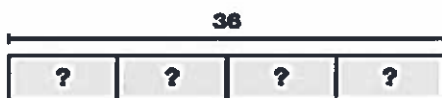


- $4 \times 6 = 24$   
  $7 \times 4 = 28$   
  $28 \div 4 = 7$   
  $8 \times 4 = 32$   
  $32 \div 4 = 8$

Draw lines to connect equal expressions.



Debra drew the bar diagram below. Which equations could be used to represent the problem shown in Debra's bar diagram? Choose all that apply.



- $? \times 36 = 4$   
  $4 \div ? = 36$   
  $36 \div 4 = ?$   
  $4 \times ? = 36$   
  $36 \times 4 = ?$

Corey wrote three equations. What number will make all of Corey's equations true?

$$? \times 9 = 54$$

$$42 \div 7 = ?$$

$$48 \div ? = 8$$

Levi is buying used books. He buys 5 hardcover books and 2 paperback books. He spends \$28. If the books are all the same price, how much does each book cost?

Sam wrote five numbers. Which of Sam's numbers can be divided into 6 equal groups with 0 left over? Choose all that apply.

- 56  
 54  
 48  
 36  
 32

On her trip, Cybil sent 56 postcards. She sent the same number of postcards to each of 8 friends. How many postcards did Cybil send to each friend?

Use the bar diagram to help.

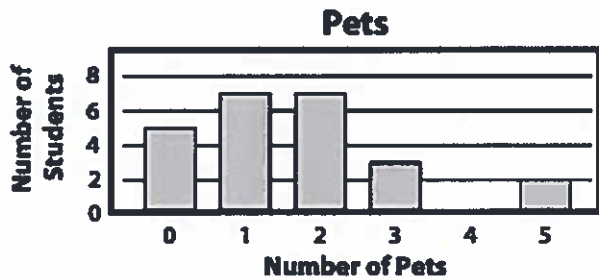


- (A) 6  
 (B) 7  
 (C) 8  
 (D) 9

Jeff has a square garden. One side of the garden is 8 feet long. What is the area of Jeff's garden?

- (A) 16 square feet
- (B) 32 square feet
- (C) 64 square feet
- (D) 128 square feet

Mr. Rudolph's class made a bar graph of the number of pets each student has. How many students in the class have 3 pets?



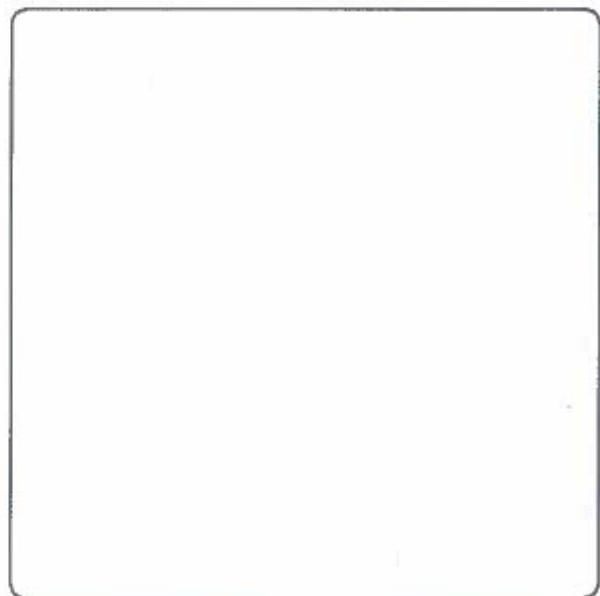
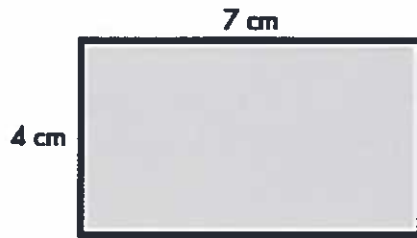
- (A) 0
- (B) 2
- (C) 3
- (D) 5

Lizzie draws a rectangle with an area of 42 square centimeters. She labels one side 6 centimeters, but she forgot the other side. What is the missing length?



- 6 centimeters
- 7 centimeters
- (C) 8 centimeters
- (D) 9 centimeters

Josie draws a rectangle. Explain how to find the area.

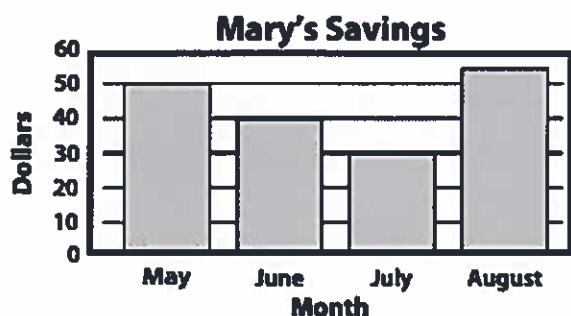


Mary made a picture graph to show how many miles she ran each week. In which week or weeks did she run 8 miles?

Miles Run in July	
Week 1	
Week 2	
Week 3	
Each  = 2 miles. Each  = 1 mile.	

- (A) Week 1
- (B) Week 3
- (C) Weeks 1 and 3
- (D) Weeks 2 and 3

The graph shows the amount of money Mary saved in each of 4 months. In which month did she save the most money?



- (A) May
- (B) June
- (C) July
- (D) August

Mr. Brown drove 212 miles on Monday. On Tuesday he drove 69 miles. He drove another 183 miles on Wednesday. How many total miles did he drive over the 3 days?

- (A) 464 miles
- (B) 454 miles
- (C) 364 miles
- (D) 354 miles

Last month, Alice rode her bike 219 miles. Her brother Charles rode his bike 196 miles. Both Alice and Charles took 18 rides. How many miles did they ride?

- (A) 397 miles
- (B) 405 miles
- (C) 415 miles
- (D) 433 miles

Jarod is making a bar graph to compare how many sports cards he has for each sport. He has 32 baseball cards, 24 football cards, 12 soccer cards, and 16 basketball cards. Which scale makes the most sense for Jarod to use with his graph?

- (A) Each grid line equals 1 sports card.
- (B) Each grid line equals 4 sports cards.
- (C) Each grid line equals 8 sports cards.
- (D) Each grid line equals 10 sports cards.

Draw lines to match each number on the left with the number on the right that shows rounding to the nearest hundred.

732	400
555	700
449	500
498	600

Cows at the Wolf dairy farm produced 300 gallons of milk on Thursday. A local ice cream maker purchased 165 gallons of this milk. There are 50 cows on the farm. How many gallons are left to sell?

- (A) 85 gallons
- (B) 135 gallons
- (C) 415 gallons
- (D) 465 gallons

Mario has 311 tokens. He uses 185 of them to download a game to his tablet and 19 of them to add a character to another game. How many tokens does he have left?

At an art festival, Mr. Jessup sold one painting for \$178 and another for \$125. He spent \$85 for art supplies. How can Mr. Jessup find out how much money he had left? Choose all that apply.

- Add \$85 and \$125; then subtract \$178.
- Add \$178 and \$125; then subtract \$85.
- Subtract \$85 from \$125; then add \$178.
- Add \$178 and \$85; then subtract \$125.
- Add \$125 and \$178; then subtract \$85.

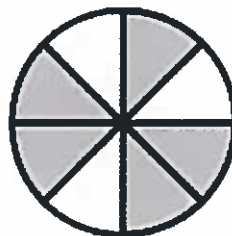
Last year, Earl added \$763 to his savings account. His brother Jim added \$547 to his savings. Which shows how much more Earl saved?

- (A) \$116
- (B) \$216
- (C) \$226
- (D) \$261

Betty is making bracelets and needs 6 boxes of blue beads and 2 boxes of white beads. Each box of beads contains 20 beads. How many beads does Betty need?

- (A) 120
- (B) 160
- (C) 180
- (D) 240

What fraction of the whole is shaded?



Mr. Roberts is building a fence. He spent 90 minutes working on each of 2 days. On the first day, he built  $\frac{1}{5}$  of the fence. The second day, he built another  $\frac{2}{5}$  of the fence. What fraction of the fence has he built so far?

- (A)  $\frac{1}{5}$
- (B)  $\frac{2}{5}$
- (C)  $\frac{3}{5}$
- (D)  $\frac{4}{5}$

Marilyn and her brothers are painting a fence. Marilyn paints  $\frac{1}{6}$  of the fence. Lee and Carl each paint  $\frac{2}{6}$  of the fence. How much of the fence do they paint all together?

Joseph and Ernie walked the same distance to baseball practice. Their start and end times were different. Who walked faster and by how many minutes?

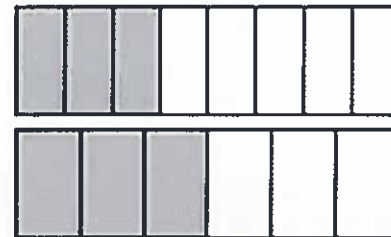


- (A) Ernie; 5 minutes faster than Joseph
- (B) Joseph; 5 minutes faster than Ernie
- (C) Joseph; 15 minutes faster than Ernie
- (D) They finished in the same amount of time.

Li believes that  $\frac{3}{4}$  of the figure is shaded. Is he correct? Explain.



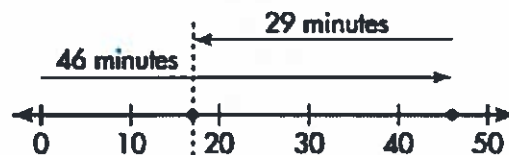
Karyna jogged  $\frac{3}{8}$  of a mile. Hannah jogged  $\frac{3}{6}$  of a mile.



Which comparisons are true? Choose all that apply.

- $\frac{3}{8} > \frac{3}{6}$
- $\frac{3}{8} < \frac{3}{6}$
- $\frac{3}{8} = \frac{3}{6}$
- $\frac{3}{6} > \frac{3}{8}$
- $\frac{3}{6} < \frac{3}{8}$

Maria rode her bike for 46 minutes on Saturday and 29 minutes on Sunday. How many more minutes did Maria ride her bike on Saturday?



- (A) 1 hour 15 minutes
- (B) 29 minutes
- (C) 17 minutes
- (D) 7 minutes



Mrs. Lopez left for work at 6:35 A.M. She arrived at work 40 minutes later. What time did she arrive at work?

A pet store sells bags of dog food. Each bag weighs 3 kilograms. Draw lines to match each number of bags on the left with the correct total weight on the right.

2 bags	9 kilograms
4 bags	12 kilograms
3 bags	6 kilograms
6 bags	18 kilograms

Sydney is looking for a tool to measure the mass of a pineapple. Which tool should she use?

- A Yardstick
- B 1-liter container
- C Pan balance
- D Clock

Look at the time on the clock below. Choose all the ways to write this time.



- 12:42
- 18 minutes before 12
- 18 minutes before 1
- 42 minutes after 12
- 1:18

Tyler used 18 kilograms of potting soil to fill flower boxes. He had already used 23 kilograms of potting soil to fill the flower pots. How many kilograms of potting soil did Tyler use in all?