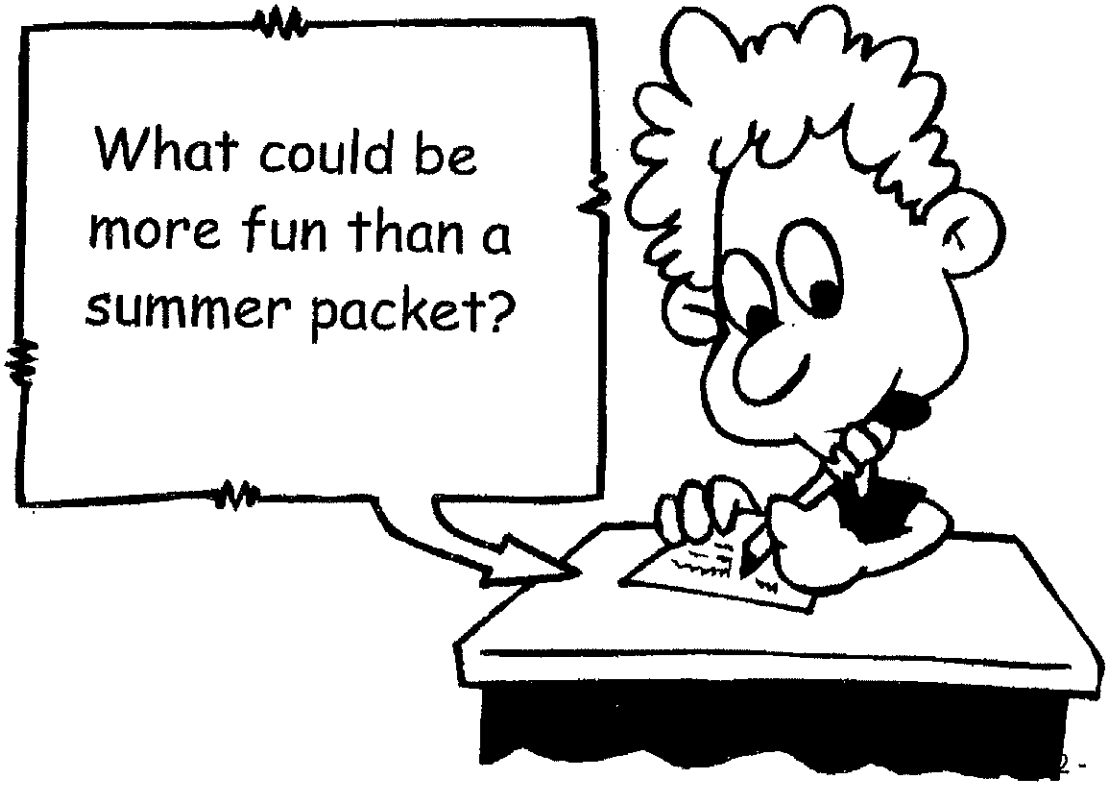
Summer Math Packet for Students Entering 5th Grade

Name_____

This Summer Math Packet is for all students who will be entering 5th grade in the fall of 2019.

Please Note: This packet contains two sections. The first section is a review of grade 4 concepts. The second section is readiness for grade 5. Please show all of your work!

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



Section 1

Gino can decorate 9 T-shirts per hour. The pattern below shows the total number of T-shirts he decorates after each of the first 5 hours he works. If the pattern continues, what are the next three numbers?

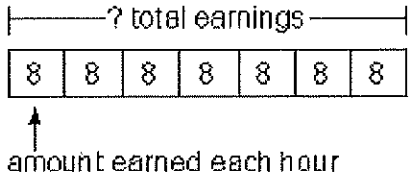
9, 18, 27, 36, 45, ▢, ▢, ▢

A 63, 72, 81
B 63, 64, 72
C 54, 63, 72
D 54, 62, 71

If you know that $3 \times 8 = 24$, which division fact do you know?

A $24 \div 12 = 2$
B $3 \div 1 = 3$
C $24 \div 8 = 3$
D $8 \div 2 = 4$

Howard works 7 hours each day. He earns $8 per hour. Which number sentence shows the total amount of money he earns in one day?



A $7 + 8 = 15$
B $8 - 7 = 1$
C $7 \times 8 = 56$
D $8 \times 8 = 64$

Section 1

Gina wrote the pattern below in her notebook.

300, 280, 260, 240, 220, ...

What is the next number in Gina's pattern?

A 200
B 210
C 220
D 240

This table shows the number of people who can fit in different numbers of Ferris wheel cars.

Number of Cars	3	6	9	12
Number of People	24	48		96

How many people can fit into 9 Ferris wheel cars?

A 64
B 72
C 80
D 84

Section 1

Raul's dad bakes bread 5 days a week. If he bakes 85 loaves each day, how many loaves of bread will his dad bake in two 5-day work weeks?

A 850
B 595
C 425
D 400

A bicycle company needs to send 171 bicycles across the country in 4 groups that are as close to the same size as possible. Which is the best estimate for the number of bicycles in each group?

A 4 bicycles
B 30 bicycles
C 40 bicycles
D 50 bicycles

It takes 68 days for John's plants to grow three centimeters. About how many weeks is that?

A about 10 weeks
B about 12 weeks
C about 14 weeks
D about 15 weeks

Section 1

The Reading Club has 43 members. Mrs. Kingston wants to form groups of 5 to read different types of books. How many groups can be formed? How many members will be left over?

A 7 groups with 6 members left over
B 8 groups with 3 members left over
C 9 groups with 2 members left over
D 10 groups with 1 member left over

Divide.

$7\overline{)84}$

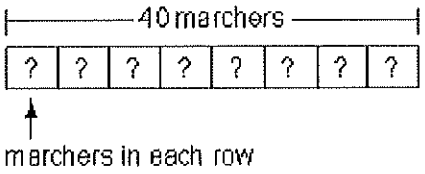
A 7 R5
B 8 R1
C 9 R3
D 9 R1

Which of these is a story for 6×8?

A Eric has 6 bags with 8 bananas in each bag. How many bananas does he have in all?
B Eric has 6 bags to put 8 bananas into. How many bananas will he put in each bag?
C Eric has 6 bananas in one bag and 8 bananas in the other. How many bananas does he have in all?
D Eric has 8 bananas. He put 6 in one bag. How many bananas does he have left to put in another bag?

Section 1

There are 40 marchers in a band. The marchers are in 8 rows. Each row has the same number of marchers. Which number sentence shows how many marchers are in each row?



A $40 - 8 = 32$
B $40 \times 8 = 320$
C $40 + 8 = 48$
D $40 \div 8 = 5$

How many 2s are there in 22?

A 9
B 11
C 12
D 14

Sharon has 99 apples. If she can put 9 apples in each bag, how many bags will she need?

A 8
B 9
C 10
D 11

Owning stock in a company means owning part of that company. Each part is known as a share. Carol Tucker has 34 shares of stock that she will give to her 3 children. If each child gets the same number of shares, how many shares will each child receive? How many shares will be left over?

A 10 shares with 4 left over
B 11 shares with 1 left over
C 12 shares with none left over
D 11 shares with none left over

Section 1

Which list contains all prime numbers?

A 19, 28, 29
B 11, 19, 30
C 11, 19, 29
D 11, 15, 29

Which is NOT a multiple of 6?

A 12
B 16
C 18
D 30

What generalization can be made about all multiples of 4?

A They are all odd
B They are all multiples of 2
C They are all factors of five
D They are both even and odd

What is the missing number that makes the fractions equivalent?

$$\frac{4}{8} = \frac{20}{?}$$

A 25
B 36
C 40
D 54

Section 1

Monday night Tyrell spent $\frac{2}{6}$ hour on his homework and Eva spent $\frac{5}{6}$ hour on her homework. How much more time did Eva spend on homework than Tyrell?

A $\frac{3}{6}$ hour
B $\frac{2}{6}$ hour
C $\frac{1}{6}$ hour
D $1\frac{1}{6}$ hours

Kanya took a survey about favorite sports. The following table gives the result in fractions.

FAVORITE SPORTS

Sport	Fraction
Football	$\frac{5}{16}$
Basketball	$\frac{1}{4}$
Soccer	$\frac{3}{8}$
Track	$\frac{1}{16}$

Which sport was the favorite among those surveyed?

A Football
B Basketball
C Soccer
D Track

At home, Tommy played his guitar and saxaphone. He spent 12 minutes on the guitar and twice as long on the saxaphone. Which expression can be used to find how much time he spent on the instruments?

A $12 - (2 \times 12)$
B $12 + (2 \times 12)$
C $(12 + 2) - 12$
D $(12 - 2) \times 12$

Section 1

Which improper fraction does NOT equal a whole number?

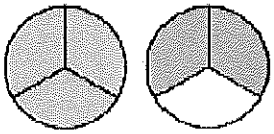
A $\frac{12}{2}$

B $\frac{18}{3}$

C $\frac{24}{4}$

D $\frac{36}{5}$

Ken ate $\frac{5}{3}$ containers of yogurt. What is $\frac{5}{3}$ expressed as a mixed number?



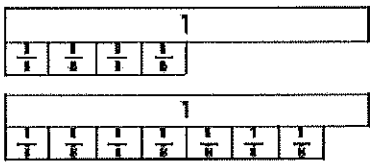
A $5\frac{1}{3}$

B $2\frac{3}{5}$

C $1\frac{2}{3}$

D $1\frac{1}{3}$

Mike needs $1\frac{4}{8}$ cups of flour to make a cake and $1\frac{7}{8}$ cups of flour to make a piecrust. How much flour does Mike need to bake the cake and piecrust? Use this model to find the sum.



A $1\frac{3}{8}$ cups

B 2 cups

C $2\frac{8}{10}$ cups

D $3\frac{3}{8}$ cups

Section 2: Grade 5 Readiness

1. Which of the following is another way to write the number 11,040?

   A One thousand, one hundred forty

   B One thousand, forty

   C Eleven thousand, forty

   D Eleven thousand, four hundred

2. Which statement is true?

   A $510{,}080 > 510{,}000$

   B $510{,}800 < 510{,}008$

   C $510{,}080 > 510{,}800$

   D $510{,}008 < 510{,}000$

3. What is 143,479 rounded to the nearest thousand?

   A 140,000

   B 143,000

   C 143,080

   D 143,500

4. In September, a group of fifth graders read 2,866 pages. In October, they read 3,154 pages. How many pages did they read in all?

   A 6,000

   B 6,010

   C 6,020

   D 6,920

5. Doug had 6,000 seeds. He planted 3,670. How many seeds does he have left?

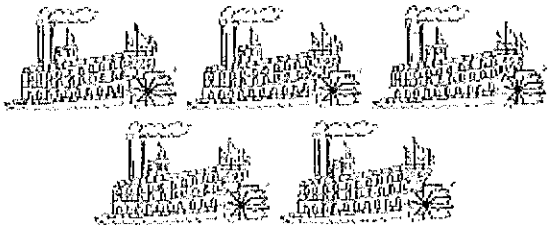
   A 2,430

   B 2,330

   C 1,820

   D 1,720

6. Each boat has 9 cabins.



   If Raul counted the cabins in groups of 9, which list shows numbers he could have named?

   A 15, 20, 25, 30

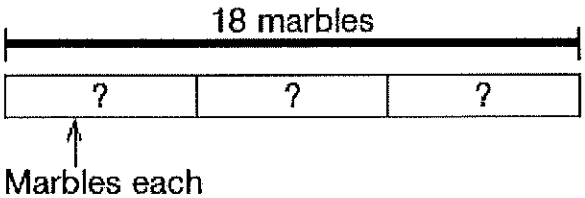
   B 18, 36, 48, 63

   C 28, 35, 42, 48

   D 18, 27, 36, 45

Section 2: Grade 5 Readiness

7. Three friends have 18 marbles to share equally. How many marbles will each friend get?



A 9

B 8

C 7

D 6

8. Tina has a garden. Tomato plants are in six-eighths of her garden. What fraction is equivalent to $\frac{6}{8}$?

A $\frac{1}{6}$

B $\frac{2}{3}$

C $\frac{3}{4}$

D $\frac{8}{6}$

9. Part of the calculation for 23×4 is shown below. What partial product should replace □□?

A 8

B 12

C 18

D 27

$$\begin{array}{r} 23 \\ \times\ 4 \\ \hline \square\square \\ +\ 80 \\ \hline 92 \end{array}$$

10. A store sold 316 phones in a week. At this rate, how many phones would the store sell in 3 weeks?

A 976

B 956

C 948

D 938

11. A soccer team played 8 games. The same number of people came to each game. If a total of 2,400 people attended the 8 games, how many people came to each game?

A 3

B 30

C 300

D 3,000

12. Which statement is true?

A The only factors of 6 are 6 and 1.

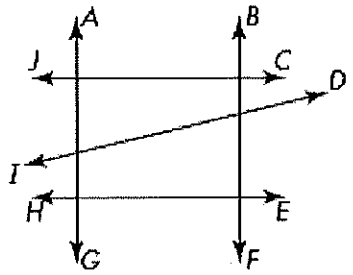
B The only factors of 7 are 7 and 1.

C The only factors of 8 are 8 and 1.

D The only factors of 9 are 9 and 1.

Section 2: Grade 5 Readiness

13. Which line is parallel to $\overline{JC}$?



A $\overleftrightarrow{ID}$

B $\overleftrightarrow{HE}$

C $\overleftrightarrow{AG}$

D $\overleftrightarrow{BF}$

14. What is the missing number in the table?

x	12	26	30	36
y	8	22	26	?

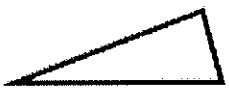
A 33

B 32

C 31

D 30

15. Which geometric terms best describe the triangle?



A Isosceles, obtuse

B Isosceles, right

C Equilateral, obtuse

D Scalene, acute

16. Which of the following is NOT a quadrilateral?

A square

B rhombus

C pentagon

D trapezoid

17. Kerry used 12 yards of fabric for a project. How many feet did she use?

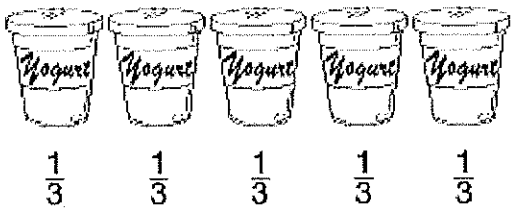
A 3 feet

B 4 feet

C 36 feet

D 48 feet

18. Ken ate $\frac{5}{3}$ containers of yogurt. What is this number written as a mixed number?



A $2\frac{2}{3}$

B $2\frac{3}{5}$

C $1\frac{2}{3}$

D $1\frac{1}{3}$

Section 2: Grade 5 Readiness

19. Which fraction represents the smallest part of a whole?

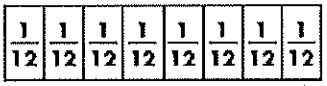
A $\frac{1}{2}$

B $\frac{1}{9}$

C $\frac{1}{3}$

D $\frac{1}{5}$

20. What is $\frac{8}{12}$ in simplest form?



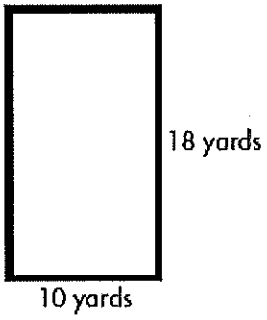
A $\frac{1}{8}$

B $\frac{2}{3}$

C $\frac{3}{4}$

D $\frac{4}{3}$

21. The measurements of a fence Mr. Walling built are shown below. What is the perimeter of the fence?



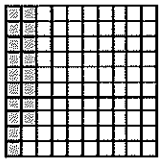
A 180 yards

B 56 yards

C 28 yards

D 8 yards

22. What decimal does the model represent?



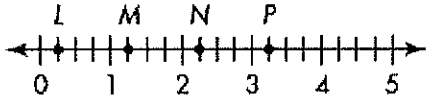
A 0.08

B 0.18

C 0.28

D 0.81

23. Kyle jumped $3\frac{1}{4}$ feet. Which point on the number line best represents the point where Kyle landed?



A *L*

B *M*

C *N*

D *P*

24. Steve's model train has a mass of 5 kg. How many grams is 5 kg?

A 50 g

B 500 g

C 1,000 g

D 5,000 g