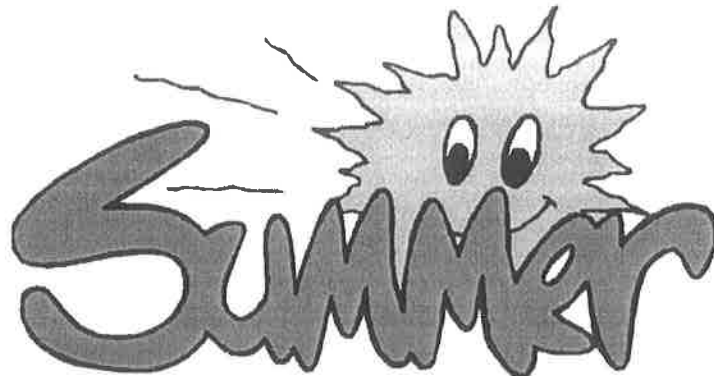
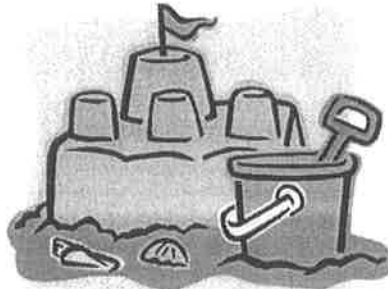


Seventh Grade



MATH PACKET



Name: _____

Instructions: Complete this review packet using the suggested pacing guide on the “Log for Mandatory Summer Work.” Show your work when any computation is involved. You must finish the packet in time for the start of 7th grade. All of the problems are intended to review mixed skills through sixth grade.

Due on the first day of 7th grade

Summer Requirements

We know that summer is often a time for vacations and family, however, it is also important for students to maintain and practice skills learned in school. For this reason, we are asking all incoming seventh graders to complete a math review packet to review basic concepts learned in previous grades. It will be due the first day of school. A time management schedule is suggested throughout the summer so that the student does not rush to complete all of the work in the last week. This is not intended to be a burden, but rather to keep the students' math skills as sharp as they were in the spring come early fall.

If students are unsure of any concepts or would like some extra practice, you can visit the following websites for assistance:

<http://www.ixl.com/math/grade-6>

<https://www.khanacademy.org/math/cc-sixth-grade-math>

http://www.softschools.com/ccss/6th_grade_math_common_core_test_prep/

Coming to school prepared is essential so that we are ready to jump into more challenging and exciting problem solving when we return to school!

Work Area

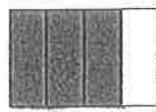
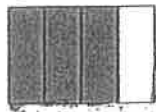
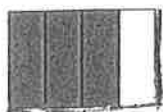


Day 3

- Write $3.15 + 4.7 + 0.6$ in standard form. _____
- Show 713.65 in expanded notation. _____

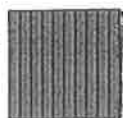
Day 4

1. The shaded portion represents which fraction or mixed number?



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

2. The shaded portion represents which decimal?



- (A) 0.103 (B) 0.13 (C) 1.03 (D) 1.3

Day 5

1. Which is equivalent to $2\frac{2}{8}$?

- (A) 2.25 (B) 2.28 (C) 2.3 (D) 2.50

2. Which is equivalent to $\frac{3}{4}$?

- (A) 0.25 (B) 0.34 (C) 0.75 (D) 3.4

Day 4

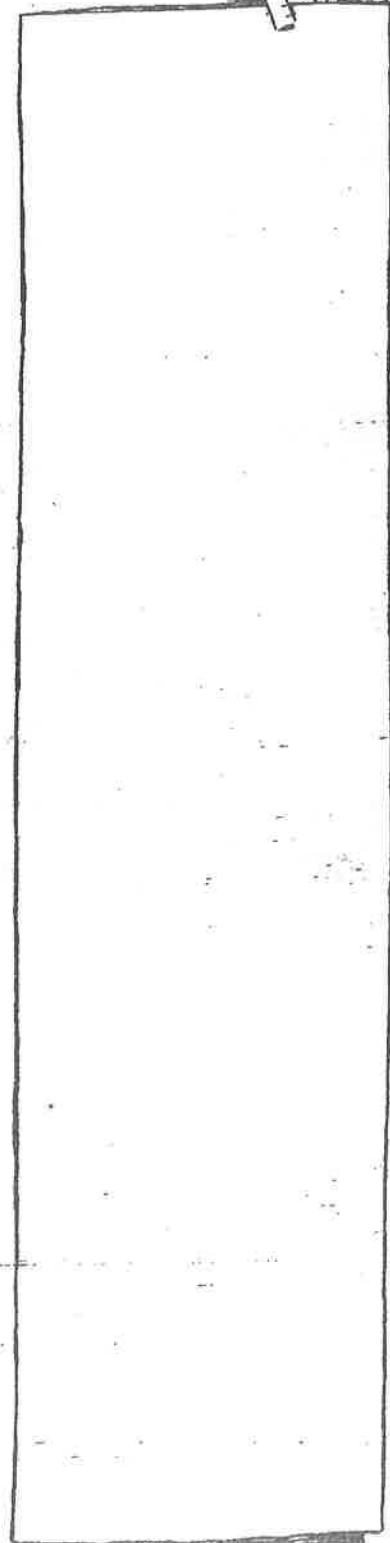
Sales this year at Here's the Scoop Ice Cream Shop increased by \$4832. Which statement **best** describes this increase?

- (A) Sales increased about \$4500.
 (B) Sales increased about \$4700.
 (C) Sales increased about \$4800.
 (D) Sales increased about \$5000.

Day 5

Lauren purchased a CD player marked \$159.99. The store had a sale, discounting all CD players 25%. Which number sentence would you use to determine how much she saved by buying the CD player on sale?

- (A) $\$159.99 + 0.25 =$ (C) $\$159.99 \times 0.25 =$
 (B) $\$159.99 - 0.25 =$ (D) $\$159.99 \div 0.25 =$



Day 6

Solve these problems.

1. $7068 + 1573 =$ _____ 3. $736 \times 9 =$ _____
 2. $16,000 - 4388 =$ _____ 4. $455 \div 7 =$ _____

Work Area



Day 7

Solve these problems.

1. $\frac{1}{2} + \frac{1}{2} =$ _____ 3. $\frac{4}{6} - \frac{2}{6} =$ _____
 2. $\frac{3}{8} + \frac{2}{4} =$ _____ 4. $\frac{5}{9} - \frac{1}{3} =$ _____

Day 8

1. The stadium seats 8265 people. The stadium was sold out for the first four games of the season. **About** how many fans attended these games?

- (A) 8000 (B) 16,000 (C) 24,000 (D) 32,000

2. Candy bars sell for \$0.79 each. **About** how much will eight candy bars cost?

- (A) \$4.80 (B) \$5.60 (C) \$6.40 (D) \$7.20

Day 9

Matthew wants to find the sum of 83 and 247. Show the numbers you would use to Estimate this amount. Solve and explain why you chose these numbers.

Estimate _____

Solution _____

Explanation _____

Day 10

Christa wants to subtract 139 from 852. To get an estimate of this difference, which number sentence would be best for Christa to use?

- (A) $800 - 100 =$ (C) $900 - 100 =$
 (B) $850 - 140 =$ (D) $140 - 850 =$

Day 11

There are 15 boys and 9 girls in Mr. Hall's class. What is the ratio of boys to girls?

- (A) 5:3 (B) 3:15 (C) 24:1 (D) 15:3

Work Area



Day 12

Solve these problems.

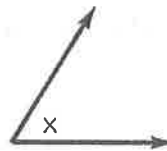
1. 100% of 300 = _____ 3. 1% of 300 = _____
 2. 10% of 300 = _____ 4. 11% of 300 = _____

Day 13

1. The measure of angle x appears to be **about** how many degrees?

- (A) 45° (B) 65° (C) 90° (D) 115°

2. What type of angle is this? _____



Day 14

1. What is the **best** unit to measure the length of a car?

- (A) inches (C) miles
 (B) feet (D) yards

2. The **best** unit to measure the length of a building is _____.

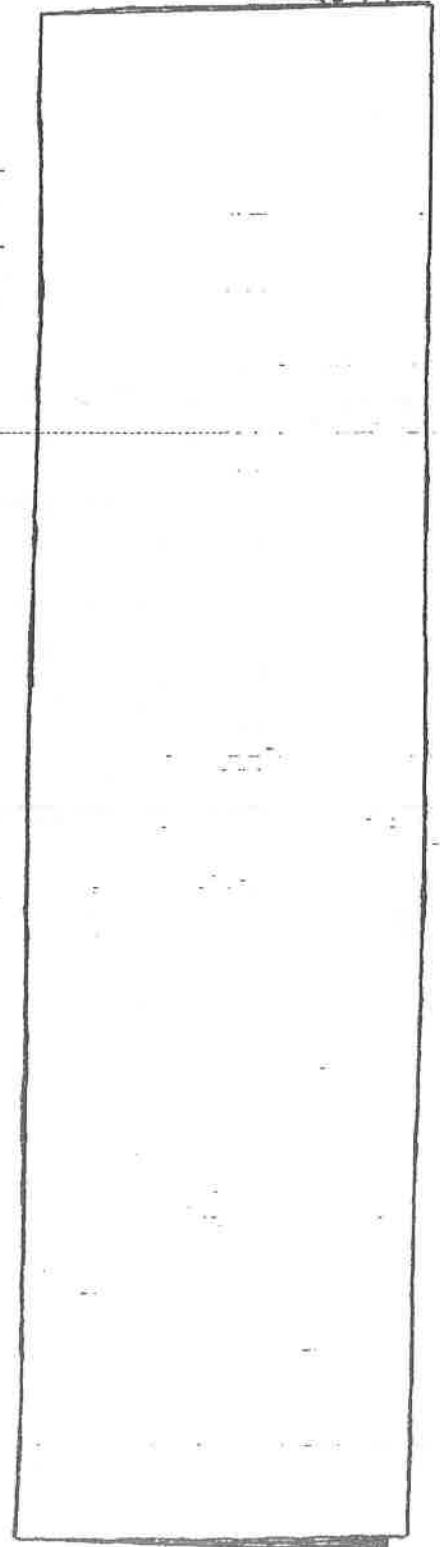
- (A) millimeters (C) meters
 (B) centimeters (D) kilometers

Day 15

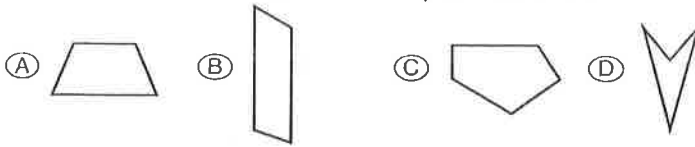
About how many small squares can fit in the larger figure? _____



Using the small square as a unit of 1, what is the perimeter of the larger figure? _____



Day 16 Which of the following is **not** a quadrilateral?



Work Area

Day 17 Draw the reflection of the letter E across the line.



Day 18 The table shows the number of students enrolled at four dance studios.

Dance Studio	Number of Students
All That Jazz	287
Tip of the Toe	312
Keep Moving	245
Stepping Out	364

On graph paper, draw and label a bar graph that represents the number of students at each dance studio.

Day 19 The table below shows the increase in video rentals from 2000 to 2002.

Video Store	2000	2002
Rent One	350,276	471,832
On the Reel	274,018	468,732
Movie Blast	110,627	341,254
Video Universe	98,703	248,576

Which video store had the largest increase in rentals from 2000 to 2002? _____

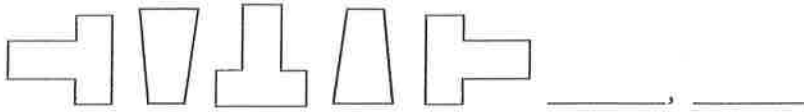
Day 20 If you tossed a coin 100 times, about how many times would it turn up tails? _____ Now toss a coin 100 times and see how many times it turns up tails. _____

Day 21

1. What are the next three numbers in the sequence?

5, 7, 11, _____, _____, _____

2. Draw the next two shapes.



Work Area



Day 22

Solve these problems.

1. $16 + 64 \div 8 =$ _____

2. $5n = 570$ $n =$ _____

Day 23

The letters of the alphabet were written separately on a piece of paper and put into a bag. What is the likelihood that a vowel (a, e, i, o, u) would be pulled out of the bag on the first try? _____

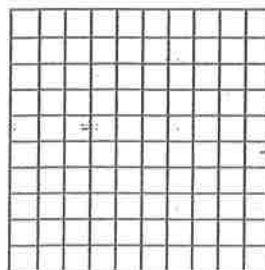
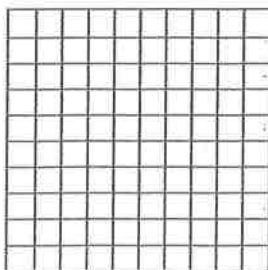
Day 24

Fill in the table.

Number	0.1 more	0.1 less	0.01 more	0.01 less
23.48				
3.067				

Day 25

1. Shade 0.04 of this square. 2. Shade 0.7 of this square.



Day 26

1. Which is equivalent to 5.4?

- (A) $\frac{54}{100}$ (B) $\frac{20}{4}$ (C) $5\frac{2}{5}$ (D) $5\frac{5}{4}$

2. Write the fraction equivalent to each of the following decimals. Give your answer in simplest form.

0.25 = _____

0.30 = _____

Day 27

If you put 27.8 in the following lists and still kept the numbers in order from **smallest to largest**, in which list would 27.8 become the third number?

- (A) 27.3 28.5 28.9 (C) 27.75 27.85 27.95
 (B) 27.06 27.07 27.09 (D) 27.46 27.78 27.92

Day 28

1. There are 96 students going on a field trip to the zoo. If there are 12 chaperones, which number sentence would you use to determine how many students would be in each group?

- (A) $96 + 12 =$ (C) $96 \times 12 =$
 (B) $96 - 12 =$ (D) $96 \div 12 =$

2. How many students will be in each group? _____

Day 29

Solve these problems.

1. $\$78.07 + \$37.96 =$ _____ 3. $\$4.16 \times 18 =$ _____

2. $\$47.39 - \$9.78 =$ _____ 4. $14.406 \div 6 =$ _____

Day 30

Solve these problems.

1. $\frac{3}{16} + \frac{7}{8} =$ _____

3. $1 - \frac{3}{4} =$ _____

2. $8 \times \frac{3}{4} =$ _____

4. $\frac{9}{10} + \frac{4}{10} =$ _____



Work Area

Work Area



Day 31

Kathy placed her puppies on a scale to see how much each one weighed. Their weights were $3\frac{3}{4}$ lbs, $4\frac{2}{3}$ lbs, and $4\frac{1}{3}$ lbs.

About how much was the total weight of the 3 puppies?

- (A) 8 lbs (B) 11 lbs (C) 13 lbs (D) 17 lbs

Day 32

1. Tasha wants to find the product of 59 and 906. Show the numbers you would use to **estimate** this product. Then solve.

Estimate _____

Solution _____

2. Brad wants to add $\frac{4}{7} + \frac{8}{9}$. To get a good **estimate** of this sum, which example would be **best** for Brad to use?

- (A) $\frac{1}{2} + \frac{1}{2} =$ (C) $\frac{1}{2} + 1 =$
 (B) $0 + 1 =$ (D) $1 + 1 =$

Day 33

Susie wants to find 52% of 273. Show the numbers you would use to **estimate** this value. Solve and explain why you used these numbers.

Estimate _____

Solution _____

Explanation _____

Day 34

There are 18 boys and 12 girls in Mrs. Joy's homeroom. What is the ratio of girls to boys?

- (A) 2:3 (B) 18:6 (C) 6:18 (D) 3:2

Day 35

Solve these problems

1. 100% of 251 = _____ 3. 1% of 251 = _____

2. 10% of 251 = _____ 4. 121% of 251 = _____

Day 36

Approximately how long is an unsharpened #2 pencil?

- (A) 10 mm (B) 3 cm (C) 7 cm (D) 19 cm



Work Area

Day 37

Complete each statement.

1. 1 gallon = _____ half gallons

2. 1 gallon = _____ quarts

3. 1 quart = _____ pints

4. 1 pint = _____ cups

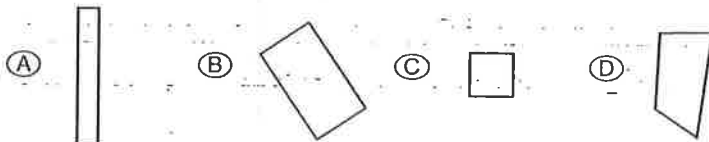
Day 38

Use your ruler to determine the area, in square centimeters, of the figure shown. _____



Day 39

1. Which is not a rectangle?



2. How many degrees does a rectangle have? _____

Day 40

1. Which letter has a line of symmetry?

- (A) S (B) E (C) R (D) J

2. Write as many words as you can that contain all symmetrical letters. (The word must be written with capital letters.)

Day 41

The table shows the number of golfers that have memberships at four country clubs.

Country Club	Number of Members
First Swing Country Club	1,742
On the Green Country Club	1,618
Stonebrook Country Club	1,788
Grassy Knoll Country Club	1,529

On graph paper, draw and label a bar graph that represents the number of members at each country club.

Work Area



Day 42

The 2002 salaries for some local officials are listed below.

Official	Salary	Official	Salary
Hines	\$66,305	Martino	\$48,966
Cleary	\$83,427	Gibson	\$64,918

1. Which two officials have a combined salary closest to \$150,000? _____

2. Whose salary is closest to \$65,000? _____

Day 43

You have 3 quarters, 3 dimes, and 4 nickels in your pocket. If you pull out one coin without looking, what is the probability that it will be a nickel? Show your answer as a ratio, fraction, and percent.

Day 44

What are the next three numbers in the sequence?

56, 48, 40, 32, _____

Day 45

Solve these problems.

1. $7^2 + 3 \times 6 =$ _____

2. $(5 + 11) \frac{3}{4} =$ _____

Day 56

Dominique wants to find the sum of 8.05 and 16.6. Show the whole numbers you would use to **estimate** this amount. Find the estimated sum and explain why you chose these numbers.

Estimate _____

Solution _____

Explanation _____

Work Area



Day 57

1. In Joshua's dresser, the ratio of shirts to jeans is 5:3. He has 15 shirts. How many pair of jeans does he have?

- (A) 3 (B) 9 (C) 27 (D) 45

2. In Stephanie's sock drawer, the ratio of white socks to design socks is 3:4. She has 16 pairs of design socks. How many pairs of white socks does she have? _____

Day 58

Solve these problems.

1. 10% of 48 = _____ 3. 20% of 48 = _____
 2. 50% of 48 = _____ 4. 23% of 48 = _____

Day 59

How many degrees are there in each angle?

1. right angle = _____ 5. obtuse angle = _____
 2. straight angle = _____ 6. circle = _____
 3. triangle = _____ 7. square = _____
 4. acute angle = _____ 8. rectangle = _____

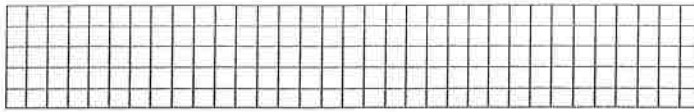
Day 60

Change each metric unit. Use the abbreviation chart as a guide: km hm dkm m dm cm mm

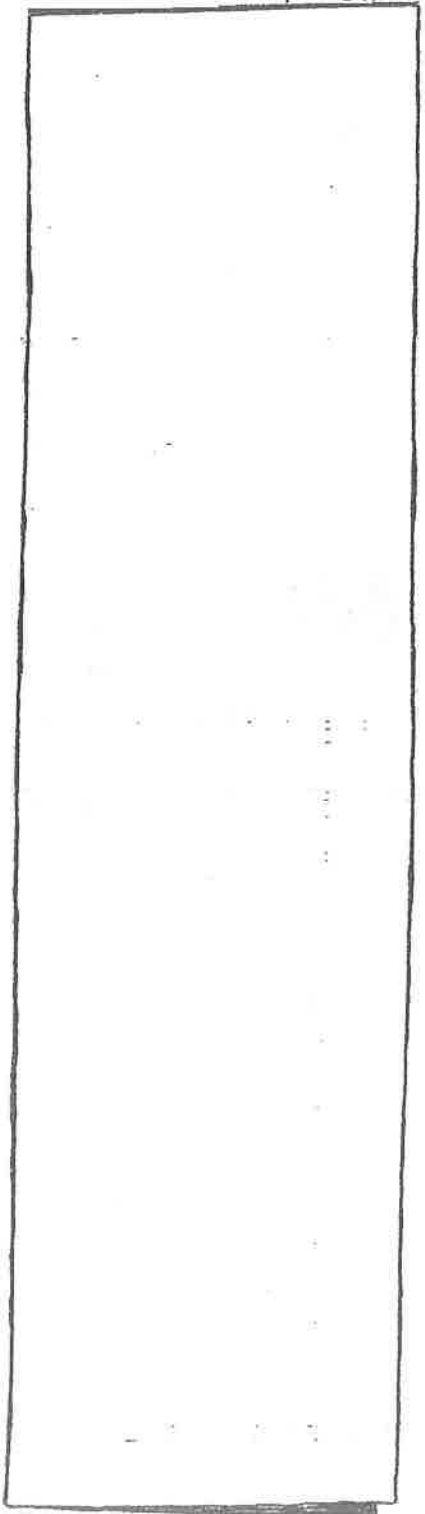
1. 2 km = _____ m 4. 72 m = _____ dkm
 2. 90 cm = _____ m 5. 2.6 mm = _____ cm
 3. 180 m = _____ mm

Day 61

Draw at least 3 polygons that have an area of 8 square units?



Work Area



Day 62

1. Which figure is **not** a pentagon?



2. hexagon = _____ sides 3. octagon = _____ sides

Day 63

How many different parallelograms can you draw?
Show all lines of symmetry with each figure.

Day 64

The table shows the number of members in four book clubs.

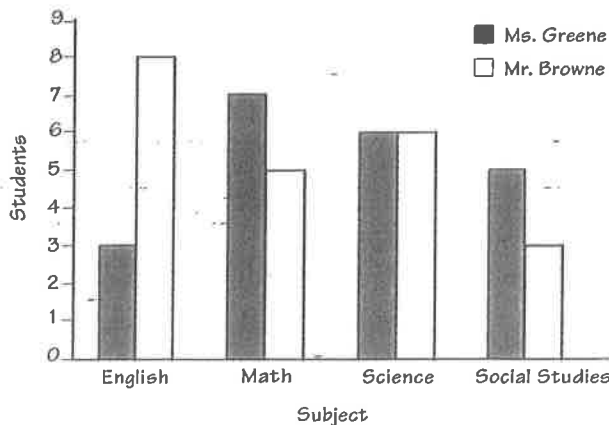
Book Club	Members	Book Club	Members
The Binding	810	Flip the Page	761
Cover to Cover	527	Bookmark	693

On graph paper, draw and label a bar graph that represents the number of members of each book club.

Day 65

The graph shows the results of a survey conducted in Ms. Greene's and Mr. Browne's classes.

What Is Your Favorite Subject?



Which subject shows the biggest difference between classes? _____ What is the difference? _____

Day 66

Four cards, one of each suit, are placed facedown on a table. If you turned over only one card, what is the probability of that card being hearts? Show your answer as a ratio, fraction, and percent.

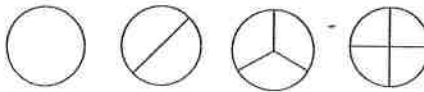
Day 67

What are the next two numbers or shapes in these sequences?

1. 4, 9, 16, 25, 36, _____, _____

What is the tenth number? _____

Describe the pattern _____

2.  _____, _____

Explain how you decided what to draw _____

Day 68

Solve these problems.

1. $x + \frac{2}{7} = \frac{5}{14}$

- (A) $\frac{1}{14}$ (B) $\frac{4}{14}$ (C) $\frac{5}{14}$ (D) $\frac{3}{7}$

2. $\frac{2}{5} + x = \frac{10}{15}$

- (A) $\frac{4}{15}$ (B) $\frac{6}{15}$ (C) $\frac{5}{10}$ (D) $\frac{8}{10}$

Day 69

Number tiles 1–10 were put into a bag. What is the likelihood that an even tile would be pulled out of the bag on the first try? Show your answer as a ratio, fraction, and percent.

Day 70

Fill in the table.

Number	0.1 more	0.1 less	0.01 more	0.01 less
85.14				
42.09				



Work Area