Sunset Middle School
Summer Math Packet

Dear Rising 6th Graders and Families,

We are very excited to welcome you to the Sunset Middle School family!

Attached, you will find the 6th Grade Summer Math Packet. The skills included in this packet are essential prerequisite skills that will serve as the foundation for success in your student's 6th grade math class.

The packet is designed to be completed over the course of the summer. We encourage students to complete one page per week to promote fluency and strengthen their math skills in a steady and manageable way.

Parents, we ask that you support your student by signing and dating each assignment once it has been completed.

If you happen to fall behind, please do not give up on the packet! Simply pick up where you left off and continue working—consistent effort makes a big difference.

All work should be completed without a calculator so students can build strong number sense and problem-solving skills.

On the first day of the 2026–2027 school year, students who have completed the summer packet will turn in their work to their math teacher. Students who fully complete the packet will receive one of the following:

- A Homework Pass
- A Spiral Review Pass

We look forward to starting this new chapter with all of you and can't wait to see the growth and progress students make over the summer!

Sincerely,

Jenny DeHart

Jennifer.dehart@wcs.edu

Math/Science Instructional Coach

Summer Math Packet

Complete week 1
Parent Signature: _____
Date: _____

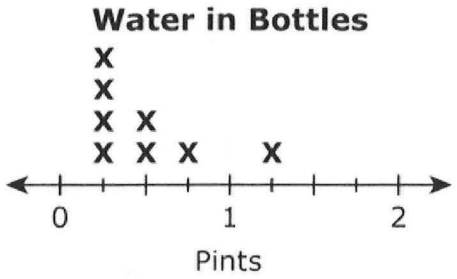
1. $\frac{8}{9}+\frac{1}{8}$	2. $\frac{12}{3}-\frac{2}{5}$	3. $\frac{2}{9}\times\frac{2}{3}$	4. $\frac{7}{8}\div\frac{7}{8}$
5. $1\frac{2}{7}+3\frac{1}{5}$	6. $4\frac{2}{9}-\frac{8}{10}$	7. $1\frac{1}{3}\times1\frac{1}{2}$	8. $1\frac{1}{4}\div1\frac{2}{5}$
9. $36.09+9.6$	10. $687-0.78$	11. 578.7×8.2	12. $587.7 \div 5$
13. Uncle Al bake brownies in a rectangular pan. He cut the brownies into 72 equal pieces and offered them as samples to his customers. By 9 A.M., $\frac{3}{4}$ of the brownies had been eaten. How many brownies were left?	14. Uncle Al asked Danielle to package 48 chocolate chip cookies. She wrapped $\frac{2}{3}$ of them in the morning and then went to lunch. How many cookies did she have to wrap when she returned?	15. To make his special apple turnovers, Uncle Al use $7\frac{1}{4}$ cups of apples. To make his special apple pit, he used $5\frac{1}{2}$ cups of apples. How many cups of apples did he use in all?	16. Uncle Al's recipe for pumpkin bread requires $2\frac{1}{4}$ cups of pumpkin. He has 12 cups of pumpkin. How many complete loaves of pumpkin bread can he bake?

Name_____

Parent Signature_____

Week 2

1. The line plot shows the amount of water, in pints, in some bottles. Each X represents 1 bottle.



What is the total amount of water, in pints, of the bottles that hold less than 0.5 pints?

2. Two identical glasses contain water. One glass is ⅔ full and the other is ⅝ full. Which of the following statements about the glasses is true?

A. Both glasses are less than half full.
B. If the contents of one glass was added to the contents of the other glass, the glass would overflow.
C. One glass is twice as full as the other glass.
D. The glass that is ⅔ full is less full than the glass that is ⅝ full.

3. Write the following fractions as decimals:

$\frac{3}{10}$

$\frac{3}{100}$

$\frac{3}{1000}$

As the denominator increases in size, how does the place value change?

4. Use any strategy (except a calculator) to divide:

585 ÷ 45

5. What is the place value of the digit 4 in the number below:

12.304

6. What is the value of the expression:

$7 + 8 \times 2$

7. Write the number: twelve and fifty-eight thousandths.

8. A company makes fruit punch in a tank that holds 570 liters. The fruit punch in the tank is then packaged in jugs that hold 3.8 liters.

What is the total number of jugs of fruit punch that can be filled from the tank? Show your work.

9. Find the value of the expression:

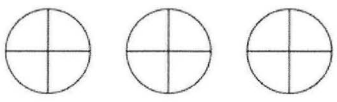
$8\frac{2}{5} - 5\frac{2}{3}$

10. Identify the missing numbers in the pattern:

16, 21, __, 31, 36, __

11. What is **12.342** rounded to the **hundredths** place?

12. Jacob has 3 cups of flour to make muffins. He uses ¼ cup of flour for every muffin. The fraction model shown can be used to find how many muffins Jacob can make.



How many muffins can Jacob make with three cups of flour?

13. To the best of your ability, multiply or divide the numbers mentally.

$198.76 \div 100$

$23 \div 10$

13.75×1000

12.2×100

Summer Math Packet

Complete week 3
Parent Signature: _____
Date: _____

1. $\frac{1}{2}+\frac{5}{6}$	2. $\frac{8}{9}-\frac{2}{3}$	3. $\frac{3}{5}\times\frac{1}{2}$	4. $\frac{1}{5}\div\frac{1}{3}$
5. 144.3 + 12.3	6. 792 – 24.3	7. 5.23 X 4.2	8. 235.4 ÷ .3
9. $5\frac{3}{7}+\frac{3}{7}=$	10. $3\frac{1}{8}-1\frac{2}{3}=$	11. $1\frac{2}{3}\times 2\frac{2}{5}$	12. $1\frac{3}{5}\div 1\frac{1}{3}$
13. Quillayute, Washington, is one of the wettest cities in the United States, averaging 105.18 inches of rainfall a year. Yuma, Arizona, is one of the driest cities in the U.S., averaging 3.17 inches of rainfall yearly. How much more rainfall does Quillayute receive than Yuma in an average year?	14. How many feet of rainfall does Quillayute receive on average each year?	15. Round the amount of rainfall Yuma receives in inches to the nearest inch.	16. One of the largest 24-hour snowfalls in the U.S. occurred on April 14-15, 1921, in Silver Lake, Colorado, when it snowed 75.8 inches. Assuming the storm lasted a full day, what was the rate of snowfall per hour? (Round your answer to the nearest hundredth.)

Name_____

Parent Signature_____

Week 4

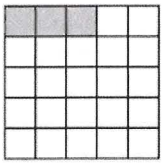
1. A closed shape has 4 sides and 4 angles.

   - All of the angles are right angles.
   - The sides of the shape are **not** all the same length.

   Which statement is true about the shape?

   - A. It is a square but not a rectangle.
   - B. It is a rectangle but not a square.
   - C. It is a square but not a rhombus.
   - D. It is a rhombus but not a square.

2. The square shown has side lengths of 1 foot.

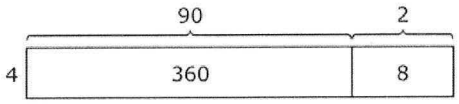


   What is the area of the shaded part of the square in square feet?

   - A. $\frac{4}{25}$
   - B. $\frac{3}{25}$
   - C. $\frac{4}{10}$
   - D. $\frac{3}{10}$

3. What is the value of the expression 124.5×10^3?

4. The model shown represents a division problem.



   Write the division problem represented by the model.

5. Which expressions are equivalent to $3 \times (8 + 7) - 4 \times 5$?

   Select the **two** correct answers.

   - ☐ A. $3 \times 11 \times 5$
   - ☐ B. $3 \times 15 - 20$
   - ☐ C. $(24 + 3) \times 5$
   - ☐ D. $24 + 7 - 20$
   - ☐ E. $45 - (4 \times 5)$

6. Brenda divided 0.32 liters of a chemical into 8 containers. She put the same amount in each container. What amount of the chemical, in liters, did Brenda put in each container?

7. Which statements about rounding decimal numbers are true? Select the **two** correct answers.

- ☐ A. 3.264 rounded to the nearest tenth is 3.2.
- ☐ B. 4.548 rounded to the nearest hundredth is 4.55.
- ☐ C. 5.816 rounded to the nearest hundredth is 5.816.
- ☐ D. 6.413 rounded to the nearest hundredth is 6.42.
- ☐ E. 7.373 rounded to the nearest tenth is 7.4.

8. Mr. Stone worked a total of 92 hours over 12 days this summer. If he worked the same number of hours each day, how many hours did he work?

A. $7\frac{6}{12}$

B. $7\frac{8}{12}$

C. $8\frac{3}{12}$

D. $8\frac{7}{12}$

9. Which expression represents 7 less than the product of 20 and 2?

A. $7 - (20 \div 2)$

B. $7 - (20 \times 2)$

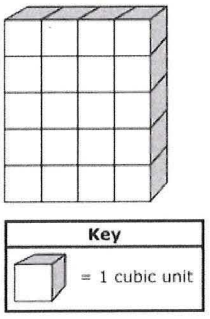
C. $20 \times 2 - 7$

D. $20 \div 2 - 7$

10. Write the number **eighty-four and 17 thousandths.**

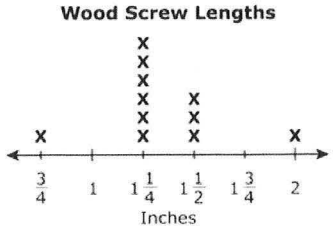
11. How many meters are in 48 kilometers?

12. A figure packed with unit cubes is shown.



What is the volume of the figure in cubic units?

13. Rachael has a bag of wood screws. She made a line plot to document their lengths.



What is the difference in length between the longest wood screw and the shortest?

14. Write each decimal below as a fraction. Simplify if possible.

0.3

0.09

0.095

Summer Math Packet

Complete week 5
Parent Signature: _____
Date: _____

1. $3\frac{1}{4} + 6\frac{1}{3}$	2. $7\frac{2}{3} - \frac{3}{8}$	3. $1\frac{1}{3} \times \frac{1}{2}$	4. $2\frac{1}{5} \div 1\frac{1}{3}$
5. $2\frac{1}{5} + \frac{1}{6} =$	6. $3\frac{1}{5} - 1\frac{7}{9} =$	7. $1\frac{1}{3} \times 2\frac{1}{3}$	8. $1\frac{1}{3} \div 12$
9. 78.5 + 14.92	10. 587 – 4.298	11. 89.32 X .009	12. 787.2 ÷ 23
13. The wieght of an object on the moom is about 0.167 of its wieght on Earth. How much does an 180 lbs astronaut weigh on the moon?	14. You buy 2.6 lbs of apples for $1.23/lb, and you also get 1.475 lbs of peaches for $1.88/lbs. How much change will you get back if you hand the cashier a $20 bill?	15. You buy three pairs of jeans for $35.95 each and get a fourth free! What is the cost per pair of jeans?	16. You send 40 text messages in one month. The total cost is $4.80. How much does each text message cost?

Name_____

Parent Signature_____

Week 6

1. The number shown has a digit of 4 and a digit of 2.

   516.542

   Which statement is true when the positions of 4 and 2 are switched?

   A. The value of the 4 changes to be 10 times the value it is now.

   B. The value of the 2 changes to be 100 times the value it is now.

   C. The value of the 4 changes to be $\frac{1}{10}$ of the value it is now.

   D. The value of the 2 changes to be $\frac{1}{100}$ of the value it is now.

2. A rectangular rug has a width of 4.6 **meters** and a length of 350 **centimeters**. Whatis the perimeter of the rug in **centimeters**.

3. A school is having a fundraiser and needs to earn $ 4,620. The school has 5 third grade classes, 5 fourth grade classes and 5 fifth grade classes. The goal is for each classroom to raise an equal part of the $4,620.

   How much does each class need to earn?

4. An orchard has different kinds of trees.

   - $\frac{1}{3}$ are apple trees.
   - $\frac{3}{5}$ are pear trees.

   What total fraction of the orchard is planted with trees?

5. Which comparisons are true?

   Select the **three** correct answers.

   ☐ A. $1.9 = 1.900$

   ☐ B. $2.704 > 2.713$

   ☐ C. $6.852 > 6.832$

   ☐ D. $8.126 < 8.129$

   ☐ E. $10.28 < 1.082$

6. Find the value: 125.3×10^3

7. Rashad put two rectangular prisms together to make a solid figure. The total volume of the solid is 184 cubic centimeters. One of the prisms has dimensions of 2 cm by 4 cm by 5 cm.

Which dimensions could be the dimensions of the other prism Rashad used?

A. 1 cm by 4 cm by 4 cm

B. 3 cm by 6 cm by 8 cm

C. 10 cm by 2 cm by 2 cm

D. 48 cm by 48 cm by 48 cm

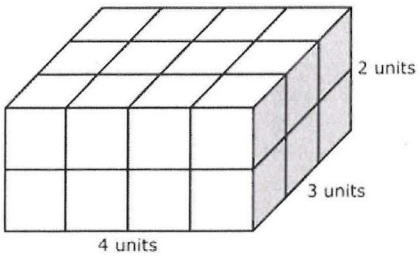
8. There are 2 bottle of glue on a table.

- Each bottle has ⅞ cup of glue in it.
- The total amount of glue in the bottle, in cups, is represented by the expression 2 x ⅞.

Which statement about the total amout of glue in the bottles is true?

A. ⅞ is less than 1, so the total amount is less than 1 cup.
B. ⅞ is greater than ½ and less than 1, so the total amount if between 1 and 2 cups.
C. 2 is greater than 1 and ⅞ is less than 1, so the total amount is 2 cups.
D. Multiplying 2 by any number makes a product ggreater than 2, so the total amount is great than 2 cups.

9. A rectangular prism is shown.



What is its volume, in units?

10. Which statement is true?

A. All parallelograms have 4 sides of equal length.

B. All parallelograms have 4 right angles.

C. All rectangles have 4 sides of equal length.

D. All rectangles have 4 right angles.

11. A board is 8 feet long. Natasha cuts the entire board into ¼ foot sections.
How many ¼ foot sections did Natasha make?

12. What is **243.56** rounded to the nearest **hundredth**?

13. Sam has a ½ acre garden. He plants ⅓ of his garden with corn. What fraction of an acre is planted with corn?

13. Find the sum.

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

Summer Math Packet

Complete week 7
Parent Signature: _____
Date: _____

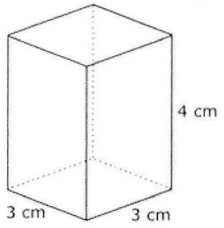
1. $\frac{1}{4}+\frac{3}{7}$	2. $3\frac{2}{5}-1\frac{1}{3}$	3. 14.6×84	4. $38.1 \div .6$
5. $3\frac{1}{3}+\frac{3}{4}$	6. $1\frac{3}{4} \div 6$	7. 47.901×14.73	8. $390.83 \div 6$
9. $1\frac{1}{8}+\frac{3}{5}$	10. $1\frac{1}{8}-\frac{3}{5}$	11. $1\frac{1}{8} \times \frac{3}{5}$	12. $1\frac{1}{8} \div \frac{3}{5}$
13. A grocery store sells grapes for $1.99 per pound. You buy 2.34 pounds of grapes. How much do you pay?	14. You class buys a cake for your teacher's birthday. The cake costs $34.50 and there are 25 students in your class. How much does each student pay?	15. You and three friends run a 3.1 mile relay race. If each of you runs the same distance, how far does each person run?	16. How many $3\frac{3}{4}$ in pieces of ribbon can be cut from on ribbon that is $32\frac{1}{8}$ long?

Name_____

Parent Signature_____

Week 8

1. A rectangular prism is shown.



What is the volume in centimeters cubed?

2. A student says that a square is always a rectangle. Is the student correct?

Ⓐ No, because a square has 4 equal sides.

Ⓑ No, because a square only has 1 set of parallel sides.

Ⓒ Yes, because a square has 4 right angles and 2 sets of parallel sides.

Ⓓ Yes, because a square has 2 obtuse angles and 1 set of parallel sides.

3. Find the products:

3.7×10^4

$0.28\ x\ 10^3$

4. Which statement correctly compares the digit 5 in the number 89.059 and 78.365?

A. The 5 in 89.059 is $\frac{1}{100}$ the value of the 5 in 78.365.

B. The 5 in 89.059 is $\frac{1}{10}$ the value of the 5 in 78.365.

C. The 5 in 89.059 is 10 times the value of the 5 in 78.365.

D. The 5 in 89.059 is 100 times the value of the 5 in 78.365.

5. Select the box in each row that matches the written form to its expression.

	$(12-10)+2$	$12\times(2+10)$	$12\times2-10$
Multiply 12 and 2, then subtract 10.	○	○	○
Subtract 12 and 10, then add 2.	○	○	○
Add 2 and 10, then multiply by 12.	○	○	○

6. Find the product: 0.2 x 0.3.

7. Shelby has a 6 foot rope. She cut $2\frac{5}{12}$ feet from the rope. How long is the rope now?

8. Jaslyn and 4 friends share 2 liters of apple juice equally. Which equation represents the amount of juice each person receives?

Ⓐ $2 \div 5 = \frac{2}{5}$

Ⓑ $2 \div 4 = \frac{1}{2}$

Ⓒ $4 \div 2 = 2$

Ⓓ $5 \div 2 = 2\frac{1}{2}$

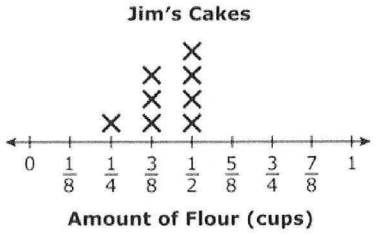
9. Coach Wood ordered 3 pizzas to feed 5 members of the track team. What fraction of a pizza did each member receive? (Coach Wood did not eat any pizza.)

10. An aquarium has a chart displaying the average length, in **meters**, of four whales.

Whale	Length (m)
Blue Whale	24
North Pacific Right Whale	15.5
Southern Right Whale	15.25
Fin Whale	19.5

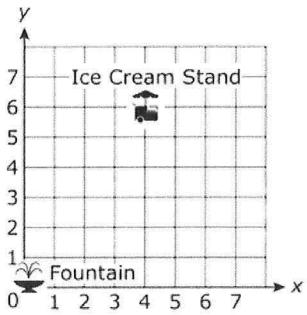
What is the difference, in **centimeters**, between the whale with the longest length and the whale with the shortest length?

11. The line plot shows the amount of flour Jim uses to make 8 different cakes.



Jim has 2 cups of flour. How much more flour does Jim need to make all 8 cakes?

12. The mall manager has added an ice cream stand near the fountain.



Write the location of the ice cream stand as an ordered pair.

13. What number comes next in the pattern?

7, 14, 28, 56, ___

Summer Math Packet

Complete week 9
Parent Signature: _____
Date: _____

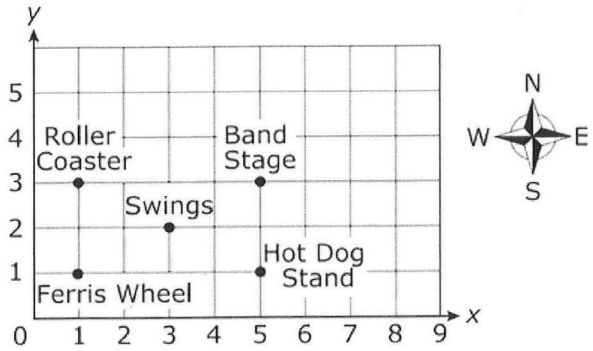
1. $8\frac{2}{9} + 1\frac{2}{5}$	2. $8\frac{1}{3} - 5\frac{5}{8}$	3 $4 \times 2\frac{1}{3}$	4. $3\frac{1}{5} \div 4$
5. $10\frac{2}{7} + 4\frac{5}{8}$	6. $5 - 2\frac{1}{4}$	7. $2 \times 1\frac{3}{12}$	8. $1\frac{3}{5} \div \frac{1}{4}$
9. $6\frac{7}{10} + 3\frac{4}{7}$	10. $7\frac{4}{7} - 3\frac{1}{4}$	11. $\frac{6}{11} \times 2\frac{1}{5}$	12. $10 \div 3\frac{1}{3}$
13. Martin has 8 pizzas. He wants to divide the pizza into fourths. How many slices of pizza will he have?	14. Katie's cookie recipe calls for $2\frac{4}{5}$ of flour. If Katie wants to quadruple this recipe, how much flour will she need?	15. Drew ran 40 yards in 15.7 seconds. What is this number written as a fraction?	16. Rylee has $4\frac{3}{4}$ inches of a fruit rollup left. What is this fraction written as a decimal?

Name_____

Parent Signature_____

Week 10

1. A map of an amusement park is shown.



Ben is located at the swings. He leaves the swings and travels 2 blocks west and 1 block south. What is Ben's new location?

2. A student says that a square is always a rectangle. Is the student correct?

A. No, because a square has four equal sides.
B. No, because a square only has one set of parallel sides.
C. Yes, because a square has 4 right angles and 2 sets of parallel sides.
D. Yes, because a square has 2 obtuse angles and 1 set of parallel sides.

3. What is the product of 271 x 1,345? Show your work!

4. What is 2,379.042 rounded to the nearest hundredth?

5. Evaluate the expression.

$$102 - [3(2 + 7) + 8]$$

6. What is the product of 2.5×10^3?

7. Jesse had three water bottles with different quantities of water, equaling a total of 1.35 liters of water. Which answer represents the amount of water Jesse had?

Ⓐ 1.0 L + 0.35 L + 0.05 L Ⓒ 1.0 L + 0.20 L + 0.15 L

Ⓑ 0.95 L + 0.40 L + 0.30 L Ⓓ 0.50 L + 0.05 L + 0.70 L

8. Which numerical expression represents "add 12 and 9, then multiply the sum by 5"?

Ⓐ $(12 \times 9) + 5$

Ⓒ $12 \times 9 + 5$

Ⓑ $12 + 9 \times 5$

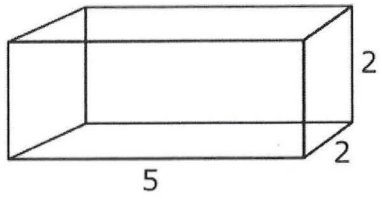
Ⓓ $(12 + 9) \times 5$

9. Harley's recipe needs $4\frac{2}{3}$ cups of flour. If the recipe is tripled, how much flour will be needed?

10. Select the box in each row with the symbol that makes the comparison true.

	<	>	=
143.695 □ 143.569	○	○	○
713.628 □ 713.682	○	○	○

11. What is the volume of the rectangular box?



12. How many ⅛ cup servings are in 7 cups of cereal?

13. Which decimals round to 0.12?

Select **two** answer choices.

Ⓐ 0.112

Ⓑ 0.114

Ⓒ 0.115

Ⓓ 0.121

Ⓔ 0.125

14. Sam had 28 index cards. Bailey gave him 8 more cards. He then sorted all the cards into 4 equal packages.

Which expression represents the number of index cards in each package?

Ⓐ $(28 + 8) \div 4$

Ⓒ $(28 + 4) \div 8$

Ⓑ $28 + 8 \div 4$

Ⓓ $28 \div 4 + 8$

15. Write each fraction as a decimal.

$\frac{14}{100}$

$\frac{7}{1000}$

$\frac{8}{10}$