

Dear parents and guardians,

We hope your summer is off to a great start! We want to start by saying that the summer work for your child is designed to bridge the gap between the end of the school year and the start of the next school year. We have provided three resources that can be utilized this summer.

XtraMath

- Directions:
 - Go to <https://home.xtramath.org/> and click "sign up"
 - Sign in with Google (use Pen Ryn account)
 - Click "yes" you have an existing account
 - Click "yes" I am a student
 - Type your first name, use aeppolito@penryn.org as the email, your PIN
- Username:
- PIN:
- XtraMath is a resource used to improve your child's math fact fluency by tracking speed and accuracy in addition, subtraction, multiplication and division.

Review Packet

- We have provided a worksheet based review to help prepare them for the upcoming school year.

Optional: IXL Diagnostic Action Plan

- Username:
- Password:
- Current students: please see Diagnostics Arena on the website for recommendations
- New students: please complete the IXL Diagnostics

If any questions arise please contact Lynn Armstrong, larmstrong@penryn.org, who will be in contact with the math department.

Have a great summer!

The Upper Grade Mathematics Department
The Pen Ryn School

Name _____

Grade

4

Course Benchmark 1

For use after Chapter 3

1. Compare the values of the underlined digits.

3,000 and 300

2. Write the number in two other forms.

Word form: nine hundred eighty-eight thousand, three hundred eight

Standard form:

Expanded form:

3. Round 321,836 to the nearest thousand.
-

4. Find the sum.

$$\begin{array}{r} 368,309 \\ + 58,156 \\ \hline \end{array}$$

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Course Benchmark 1 (continued)

For use after Chapter 3

5. Find the difference.

$$\begin{array}{r} 93,094 \\ - 43,205 \\ \hline \end{array}$$

-
6. Find the product.

$$\begin{array}{r} 1,993 \\ \times 6 \\ \hline \end{array}$$

-
7. Write an equation for the comparison sentence.

56 is 7 times as many as 8.

$$56 = \underline{\quad} \times \underline{\quad}$$

-
8. City A has 2,276 fourth graders. City B has 2 times as many fourth graders as City A. City C has 5 times as many fourth graders as City B. How many fourth graders are in all three cities?

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Course Benchmark 2

For use after Chapter 7

1. Compare the values of the underlined digits.

300 and 30

2. Write the number in two other forms.

Word form: eight hundred twenty-six thousand, one hundred three

Standard form:

Expanded form:

3. Round 1,225 to the nearest thousand.
-

4. Find the sum.

$$\begin{array}{r} 9,251 \\ + 8,653 \\ \hline \end{array}$$

5. Find the difference.

$$\begin{array}{r} 15,967 \\ - 4,097 \\ \hline \end{array}$$

6. Find the product.

$$\begin{array}{r} 6,017 \\ \times 6 \\ \hline \end{array}$$

7. Write an equation for the comparison sentence.

35 is 7 times as many as 5.

$$35 = \underline{\quad} \times \underline{\quad}$$

8. A teacher buys 6 cases of bottled water and spends \$48. Each case has 20 bottles. During a field trip, students drink 68 bottles. How many bottles are left?

Name _____

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Course Benchmark 2 (continued)

For use after Chapter 7

9. Find the factor pairs for 28.

10. Is 64 a multiple of 7?

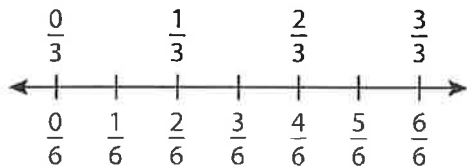
11. Write the first six numbers in the pattern.

Rule: Subtract 7.

First number: 78

78, _____, _____, _____, _____, _____

12. Use the number line to find equivalent fractions.



$$\frac{4}{6} = \frac{\square}{\square}$$

$$\frac{0}{3} = \frac{\square}{\square}$$

$$\frac{6}{6} = \frac{\square}{\square}$$

13. Divide.

$$807 \div 6 = \underline{\quad} \text{ R } \underline{\quad}$$

14. Compare.

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

Name _____

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Course Benchmark 3

For use after Chapter 11

1. Compare the values of the underlined digits.

50,000 and 5,000

-
2. Write the number in two other forms.

Word form: seven hundred seventy-six thousand, eight hundred five

Standard form:

Expanded form:

-
3. Round 42,028 to the nearest thousand.

-
4. Find the sum.

$$\begin{array}{r} 7,410 \\ + 4,266 \\ \hline \end{array}$$

5. Find the difference.

$$\begin{array}{r} 96,702 \\ - 67,861 \\ \hline \end{array}$$

6. Find the product.

$$\begin{array}{r} 7,432 \\ \times 3 \\ \hline \end{array}$$

-
7. Write an equation for the comparison sentence.

42 is 6 times as many as 7.

$$42 = \underline{\quad} \times \underline{\quad}$$

Name _____

Grade
4

Course Benchmark 3 (continued)

For use after Chapter 11

8. A school has 5 hallways. Each hallway has 145 lockers. 441 lockers are blue. 461 lockers are in use. How many lockers are *not* in use?

9. Find the factor pairs for 91.

10. Is 96 a multiple of 4?

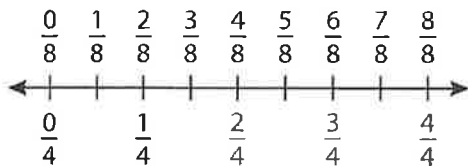
11. Write the first six numbers in the pattern.

Rule: Add 4.

First number: 9

9, _____, _____, _____, _____, _____

12. Use the number line to find equivalent fractions.



$$\frac{8}{8} = \frac{\square}{\square}$$

$$\frac{1}{4} = \frac{\square}{\square}$$

$$\frac{4}{8} = \frac{\square}{\square}$$

Name _____

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4

Course Benchmark 3 (continued)

For use after Chapter 11

13. Divide.

$$2,945 \div 3 = \underline{\quad} \text{ R } \underline{\quad}$$

14. Compare.

$$\frac{2}{5} \bigcirc \frac{1}{2}$$

15. Multiply.

$$3 \times \frac{21}{100} = \frac{\square}{\square}$$

16. Compare.

$$0.03 \bigcirc 0.08$$

17. Match each fraction with an equivalent expression.

$$\frac{4}{6}$$

$$\frac{1}{6} + \frac{3}{6}$$

$$\frac{5}{6}$$

$$\frac{1}{6} + \frac{1}{6} + \frac{1}{6}$$

$$\frac{3}{6}$$

$$\frac{1}{6} + \frac{2}{6} + \frac{2}{6}$$

Name _____

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Course Benchmark 3 (continued)

For use after Chapter 11

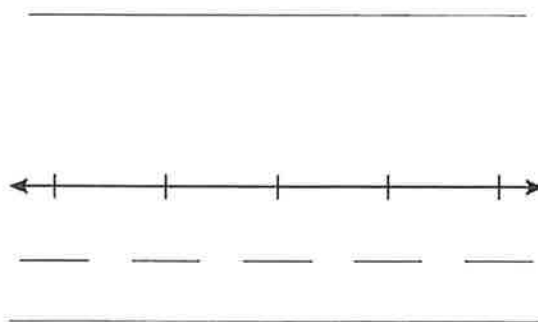
18. Write $\frac{4}{10}$ as hundredths in fraction form and decimal form.

19. Find the equivalent weight.

7 lb = _____ oz

20. You record the distances you rode your bike for 10 days. Make a line plot. How far did you ride during the 10 days in all?

Distances Biked (miles)	
5	$5\frac{1}{2}$
$6\frac{1}{2}$	5
6	5
$4\frac{1}{2}$	$4\frac{1}{2}$
$4\frac{1}{2}$	$5\frac{1}{2}$



Name _____

Grade
5

Pre-Course Test

1. Complete the statements.

_____ is 10 times as great as 2,000.

_____ is $\frac{1}{10}$ of 2,000.

-
2. Write the number in two other forms.

Word form: seven and two hundred thirteen thousandths

Standard form:

Expanded form:

-
3. Write the words as an expression.
Then interpret the expression.

Add 14 and 20, then multiply by 4.

4. Round 1.619 to the nearest tenth.

-
5. Compare.

9.904 ○ 9.902

6. Find the sum.

$$\begin{array}{r} 1.54 \\ + 39.84 \\ \hline \end{array}$$

-
7. Find the value of 5×10^4 .

8. Evaluate $[18 \times (9 + 39)] - 30$.

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5**

Pre-Course Test (continued)

Find the product.

9.
$$\begin{array}{r} 681 \\ \times 338 \\ \hline \end{array}$$

10. $0.14 \times 0.1 = \underline{\hspace{2cm}}$

Divide.

11. $3,038 \div 14 = \underline{\hspace{2cm}}$

12. $0.7 \div 2.8 = \underline{\hspace{2cm}}$

13. Add.

$$5\frac{1}{4} + 5\frac{5}{8} = \underline{\hspace{2cm}}$$

14. Multiply. Write your answer in simplest form.

$$\frac{3}{2} \times \frac{2}{3} = \underline{\hspace{2cm}}$$

15. Divide.

$$9 \div \frac{1}{8} = \underline{\hspace{2cm}}$$

16. Convert the capacity.

$$8\frac{1}{4} \text{ c} = \underline{\hspace{2cm}} \text{ fl oz}$$

17. Without calculating, tell whether the product $\frac{5}{5} \times \frac{9}{8}$ is *less than*, *greater than*, or *equal to* each of its factors.

$$\frac{5}{5} \times \frac{9}{8} \text{ is } \underline{\hspace{2cm}} \frac{5}{5}$$

$$\frac{5}{5} \times \frac{9}{8} \text{ is } \underline{\hspace{2cm}} \frac{9}{8}$$

18. A geologist needs $\frac{3}{10}$ cup of volcanic sand to perform an experiment. She has $\frac{7}{10}$ cup of quartz sand. She has $\frac{1}{2}$ cup more quartz sand than volcanic sand. Can she perform the experiment?

Name _____

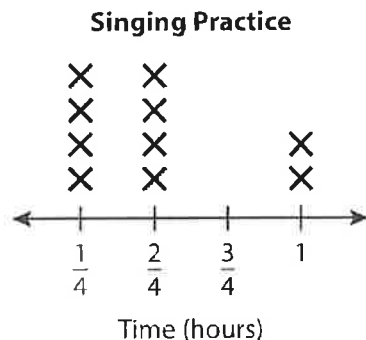
Grade
5

Pre-Course Test (continued)

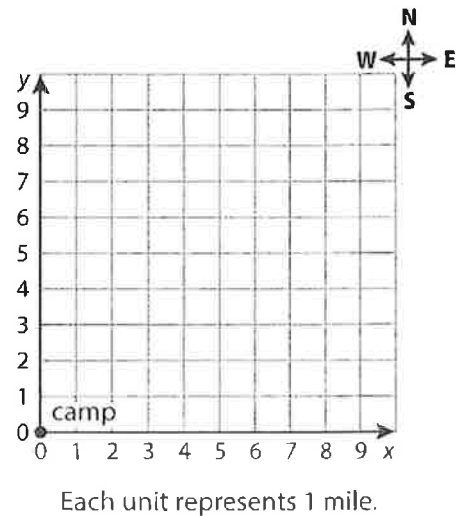
19. A recipe calls for $2\frac{1}{2}$ teaspoons of baking powder per serving. You have 7 teaspoons of baking powder. You want to make $2\frac{1}{2}$ servings. Do you have enough baking powder?

20. A jogger jogs 7 miles in 6 days. She jogs the same distance each day. How far does she jog each day? Write your answer as a mixed number in simplest form.

21. You record the amounts of time you practice singing each day for 10 days. Your friend practices the same total amount of time, but for an equal number of hours each day. How long does your friend practice each day?



22. A cave is located 9 miles east and 3 miles north of camp. Plot and label the cave.



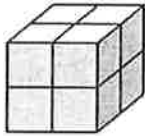
23. A container is a rectangular prism. The area of the base is 3 square feet. The height is 9 feet. Can the container hold 25 cubic feet of water?

Name _____

Grade
5

Pre-Course Test (continued)

24. Find the volume of the figure.



Volume = _____ cubic units

25. Tell whether the statement is *true* or *false*.

All rectangles are squares.

26. A baker makes 4 croissants for every 5 bagels. Complete the table. Then plot the ordered pairs from the table.

Croissants	4	8	12	16	20
Bagels	5	10			

