Math Summer Work for Rising 5th Graders

Before entering 5th grade, please complete the following questions over the summer break. This assignment will be due on your first day of school, Thursday, August 15, 2024. Try your best to complete all problems and show your work when needed. This assignment will be a completion grade.

This assignment will cover the following concepts:

- Comparing values of digits
- Writing numbers in standard form, expanded form, and word form
- Interpret expressions
- Adding and subtracting decimals
- Multiplying by base ten
- Order of operations
- Multiplying and dividing whole numbers
- Multiplying and adding fractions
- Plotting points on a coordinate plane
- Volume

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

Name_____

Grade 5 Pre-Course Test (continued)

Find the product.

9.

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

10. $0.14 \times 0.1 =$ _____

Divide.

11. $3{,}038 \div 14 =$ _____

12. $0.7 \div 2.8 =$ _____

13. Add.

$5\frac{1}{4} + 5\frac{5}{8} =$ _____

14. Multiply. Write your answer in simplest form.

$\frac{3}{2} \times \frac{2}{3} =$ _____

15. Divide.

$9 \div \frac{1}{8} =$ _____

16. Convert the capacity.

$8\frac{1}{4}$ c = _____ 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.

$\frac{5}{5} \times \frac{9}{8}$ is _____ $\frac{5}{5}$.

$\frac{5}{5} \times \frac{9}{8}$ is _____ $\frac{9}{8}$.

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 _____

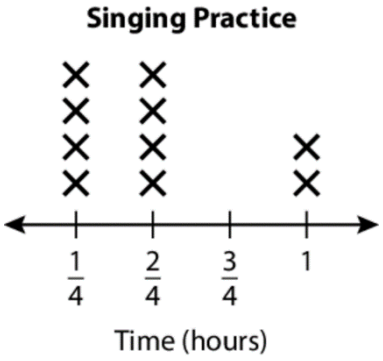
Grade 5

Pre-Course Test (continued)

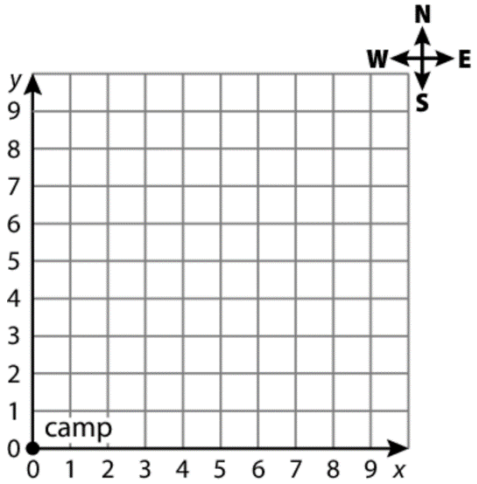
19. A recipe calls for $2\frac{1}{2}$ teaspoons of baking powder per serving. You have 7 teaspoons of baking powder. You want to make $2\frac{1}{2}$ servings. Do you have enough baking powder?

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.



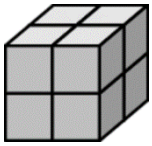
Each unit represents 1 mile.

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