

## Math Summer Work for Rising 6<sup>th</sup> Graders

Before entering 6<sup>th</sup> 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:

- Adding and subtracting whole numbers
- Adding and subtracting fractions and decimals
- Multiplying and dividing whole numbers
- Multiplying and dividing decimals and fractions
- Area, perimeter, and volume
- Plotting points on a coordinate plane
- Order of operations

Name \_\_\_\_\_ Answers \_\_\_\_\_

**Estimate the quotient.**

1.  $59 \div 5$                       2.  $78 \div 8$                       3.  $101 \div 4$
4. Your school's science club is making gift baskets to sell. The club has 350 individually wrapped soaps to put into the gift baskets. The club wants to put 3 soaps in each gift basket. How many gift baskets can the club make?

1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_

**Divide.**

5.  $322 \div 14$                       6.  $247 \div 19$                       7.  $154 \div 22$

6. \_\_\_\_\_  
7. \_\_\_\_\_

**Add or subtract.**

8.  $2.3 + 3.4$                       9.  $5.8 - 2.1$
10.  $4.2 - 1.9$                       11.  $\frac{3}{4} - \frac{1}{3}$
12.  $\frac{3}{8} + \frac{7}{8}$                       13.  $\frac{4}{9} + \frac{5}{6}$

8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_  
11. \_\_\_\_\_  
12. \_\_\_\_\_

**Estimate the sum or difference to the nearest whole number.**

14.  $3.17 - 1.8$                       15.  $5.23 + 6.8$                       16.  $8.14 + 7.25$

13. \_\_\_\_\_  
14. \_\_\_\_\_

**Complete the statement with  $<$ ,  $>$ , or  $=$ .**

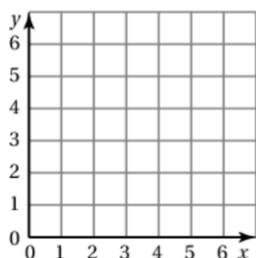
17.  $1.007$  \_\_\_\_\_  $1.004$                       18.  $3.052$  \_\_\_\_\_  $3.055$
19.  $4.61$  \_\_\_\_\_  $0.461$                       20.  $5.750$  \_\_\_\_\_  $5.75$
21.  $7.34$  \_\_\_\_\_  $7.734$                       22.  $9.976$  \_\_\_\_\_  $9.76$

15. \_\_\_\_\_  
16. \_\_\_\_\_  
17. See left.  
18. See left.

**Plot the ordered pair in the coordinate plane.**

23.  $(2, 5)$                       24.  $(6, 1)$                       25.  $(0, 4)$

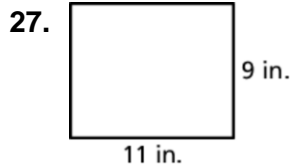
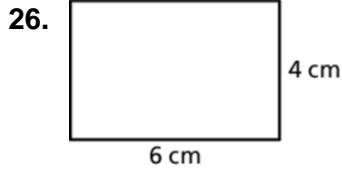
19. See left.  
20. See left.  
21. See left.  
22. See left.  
23. See left.  
24. See left.  
25. See left.



**Pre-Course**

**Pre-Course Test (continued)**

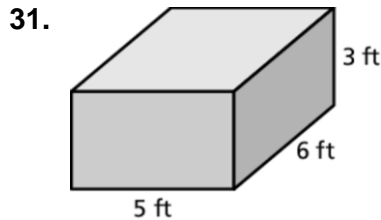
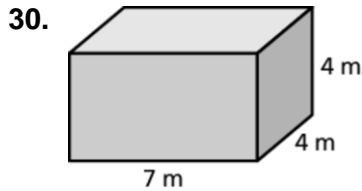
Find the area of the rectangle.



28. Your house is 1030 meters from school. Your friend's house is 1.5 kilometers from school. Whose house is farther from school?

29. How many vertices does a cube have?

Find the volume of the rectangular prism.



Tell whether the number is *prime* or *composite*.

32. 532

33. 87

34. 41

Multiply or divide.

35.  $16 \times 9$

36.  $20 \times 17$

37.  $135 \div 9$

Simplify the expression.

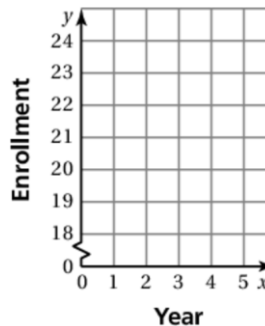
38.  $15 - 4 \times 3$

39.  $2 \times (8 + 7)$

40.  $(9 + 9) + 7 \times 2$

41. The data show a class enrollment over a five-year period. Make a line graph to represent the data.

<b>Year</b>	1	2	3	4	5
<b>Class Enrollment</b>	22	24	23	20	19



**Answers**

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_

34. \_\_\_\_\_

35. \_\_\_\_\_

36. \_\_\_\_\_

37. \_\_\_\_\_

38. \_\_\_\_\_

39. \_\_\_\_\_

40. \_\_\_\_\_

41. See left.

Item Number	Skills
1	rounding, dividing whole numbers
2	rounding, dividing whole numbers
3	rounding, dividing whole numbers
4	dividing whole numbers
5	dividing whole numbers
6	dividing whole numbers
7	dividing whole numbers
8	adding and subtracting decimals
9	adding and subtracting decimals
10	adding and subtracting decimals
11	adding and subtracting decimals
12	adding and subtracting decimals
13	adding and subtracting decimals
14	rounding decimals
15	rounding decimals
16	rounding decimals
17	comparing decimals
18	comparing decimals
19	comparing decimals
20	comparing decimals
21	comparing decimals

Item Number	Skills
22	comparing decimals
23	plotting ordered pairs in the first quadrant
24	plotting ordered pairs in the first quadrant
25	plotting ordered pairs in the first quadrant
26	finding the area of a rectangle
27	finding the area of a rectangle
28	converting and comparing within the metric system
29	knowing characteristics of a cube
30	finding the volume of a rectangular prism
31	finding the volume of a rectangular prism
32	identifying prime and composite numbers
33	identifying prime and composite numbers
34	identifying prime and composite numbers
35	multiplying and dividing whole numbers
36	multiplying and dividing whole numbers
37	multiplying and dividing whole numbers
38	simplifying numerical expressions
39	simplifying numerical expressions
40	simplifying numerical expressions
41	making a line graph



