Math Summer Work for Rising 6th Graders

Before entering 6th grade, please complete the following questions over the summer break. This assignment will be due on your first day of school, Wednesday, August 16, 2023. 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_____ Date_____

Pre-Course Summer work for rising 6th graders.

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?

Divide.

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

Add or subtract.

8. $2.3 + 3.4$ **9.** $5.8 - 2.1$

10. $4.2 - 1.9$ **11.** $\dfrac{3}{4} - \dfrac{1}{3}$

12. $\dfrac{3}{8} + \dfrac{7}{8}$ **13.** $\dfrac{4}{9} + \dfrac{5}{6}$

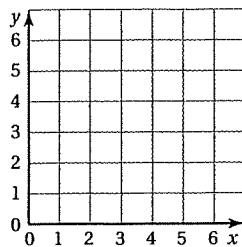**Estimate the sum or difference to the nearest whole number.**

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

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

Plot the ordered pair in the coordinate plane.

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

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. ____See left.____
18. ____See left.____
19. ____See left.____
20. ____See left.____
21. ____See left.____
22. ____See left.____
23. ____See left.____
24. ____See left.____
25. ____See left.____

Name _____ Date _____

Find the area of the rectangle.

26.

4 cm

6 cm

27.

9 in.

11 in.

Answers

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____

36. _____

37. _____

38. _____

39. _____

40. _____

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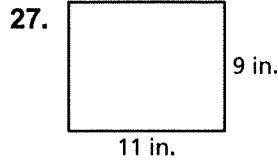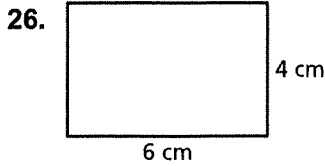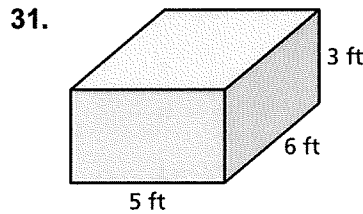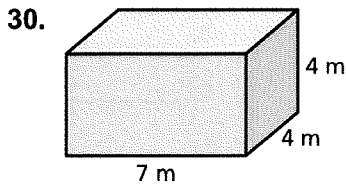
28. Your house is 1030 meters from school. Your friend's house is 1.5 kilometers from school. Whose house is farther from school?

29. How many vertices does a cube have?

Find the volume of the rectangular prism.

30.

4 m

4 m

7 m

31.

3 ft

6 ft

5 ft

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

32. 532   **33.** 87   **34.** 41

Multiply or divide.

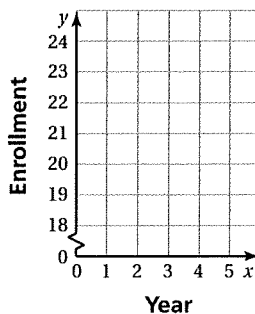**35.** 16×9 **36.** 20×17 **37.** $135 \div 9$

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.

Year	1	2	3	4	5
Class Enrollment	22	24	23	20	19

Enrollment

24
23
22
21
20
19
18
0
0 1 2 3 4 5 x

Year