

# Pre-Course Test for 6<sup>th</sup> Grade Level Math

Name \_\_\_\_\_

Date \_\_\_\_\_

**Find 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.  $\frac{3}{4} - \frac{1}{3}$

12.  $\frac{3}{8} + \frac{7}{8}$

13.  $\frac{4}{9} + \frac{5}{6}$

**Find 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.  $7.34$  \_\_\_\_\_  $7.734$

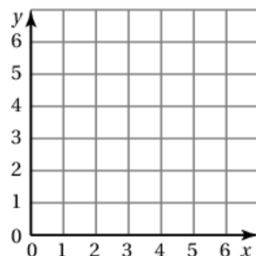
22.  $9.976$  \_\_\_\_\_  $9.76$

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

23.  $(2, 5)$

24.  $(6, 1)$

25.  $(0, 4)$



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.

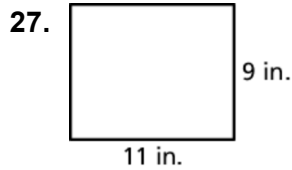
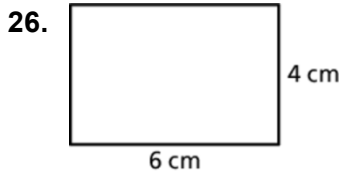
22. See left.

23. See left.

24. See left.

25. See left.

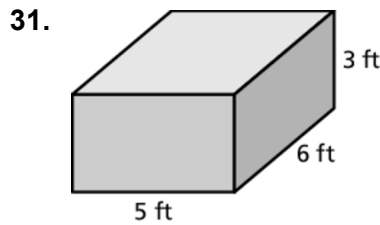
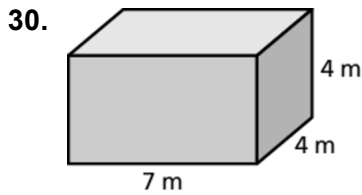
Find the area of the rectangle.



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.

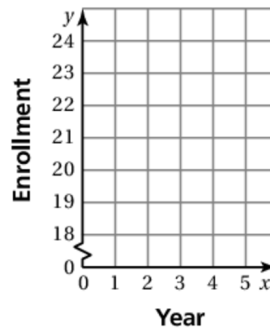
38.  $15 - 4 \times 3$

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.

Year	1	2	3	4	5
Class Enrollment	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

