

**IXL Summer Assignment- Students entering 6<sup>th</sup> grade**

Please complete each topic on the Sixth Grade Math Level with a smart score of 100% to receive full credit. The IXL assignment is worth 50 points and is due Friday, September 8, 2017. Please organize your completion of these topics as they are very basic fundamentals we have covered and will assist you in preparation for next year. **GOOD LUCK!**

In addition to the IXL assignment an "Are you Ready?" assessment will be included in the packet. Please use the provided answer sheet to complete your solutions and include scrap paper. This assignment too, will be worth 50 points. **DUE 9/11/17**

**Whole Numbers:**

**A1: Place values in whole numbers**

**A5: Add and subtract whole numbers.**

**Division:**

**C5: Divide whole #'s 2 digit division**

**Number Theory:**

**E3: Prime or composite?**

**E5: Prime Factorization**

**Decimals:**

**F7: Round decimals**

**Fractions:**

**I9: Covert between proper and improper fractions and mixed #'s**

**Operations with integers:**

**N2: Add integers**

**N8: Multiply integers**

**Geometric Measures:**

**FF1: Perimeter**

**FF6: Area of compound shapes**

**Data and Graphs:**

**GG1: Interpret pictographs**

**Statistics: HH1 Calculate mean, median, mode and range**



6th Grade

# ARE YOU READY?

## Pre-Course Test

- ✓ **Round Whole Numbers**  
Round each number to the nearest ten and nearest hundred.

1. 6,752                      2. 31,817

- ✓ **Order Whole Numbers**  
Order the numbers from least to greatest.

3. 35, 53, 49, 41, 11, 20  
4. 60, 331, 600, 532, 218, 311

- ✓ **Factors**  
List all the factors of each number.

5. 18                              6. 125

- ✓ **Number Patterns**  
Find the next three numbers in the pattern.

7. 85, 78, 71, 64, ...  
8. -12, 24, -48, 96, ...

- ✓ **Round Decimals**  
Round each number to the nearest whole number and nearest tenth.

9. 4.82                              10. 26.19

- ✓ **Simplify Fractions**  
Write each fraction in simplest form.

11.  $\frac{4}{16}$                               12.  $\frac{6}{27}$

- ✓ **Write an Improper Fraction as a Mixed Number**

Write each improper fraction as a mixed number.

13.  $\frac{17}{6}$                               14.  $\frac{27}{8}$

- ✓ **Write Equivalent Fractions**  
Find two fractions that are equivalent to each fraction.

15.  $\frac{5}{7}$                                       16.  $\frac{14}{19}$

- ✓ **Write Fractions as Decimals**  
Write each fraction as a decimal.

17.  $\frac{28}{100}$                               18.  $\frac{9}{20}$

- ✓ **Percents and Decimals**  
Write each decimal as a percent.

19. 0.7                                      20. 1.15

Write each percent as a decimal.

21. 20%                                      22. 8%

- ✓ **Whole Number Operations**  
Add or subtract.

23.  $58 + 39$                               24.  $217 - 81$

- ✓ **Use Repeated Multiplication**  
Find each product.

25.  $7 \times 7 \times 7 \times 7$   
26.  $20 \times 20 \times 20 \times 20$

### ✓ Multiply Fractions

Multiply. Write each answer in simplest form.

27.  $\frac{7}{9} \times \frac{3}{5}$

28.  $\frac{25}{40} \times \frac{18}{100}$

### ✓ Find the Percent of a Number

Solve.

29. What is 50% of 44?

30. What is 20% of 85?

31. What is 72% of 75?

### ✓ Order of Operations

Simplify.

32.  $7 + 6 \times 3 - 1$

33.  $4^3 \div (21 - 19)$

34.  $\frac{(9 - 3)^2}{4} \cdot 7$

### ✓ Evaluate Expressions

Evaluate each expression.

35.  $\frac{2g}{h} \cdot 3$  for  $g = -16$  and  $h = 24$

36.  $5(a + b) + 21$  for  $a = 15$  and  $b = -27$

### ✓ Inverse Operations

Solve.

37.  $w + 28 = 41$

38.  $x - 21 = 56$

39.  $12y = 72$

40.  $\frac{z}{52} = 4$

### ✓ Solve Proportions

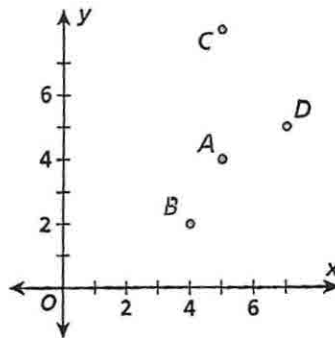
Solve each proportion.

41.  $\frac{t}{4} = \frac{39}{52}$

42.  $\frac{3}{q} = \frac{24}{56}$

### ✓ Graph Ordered Pairs

Use the coordinate plane below. Write the ordered pair for each point.



43. point A

44. point B

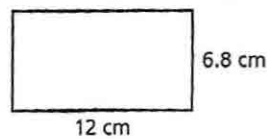
45. point C

46. point D

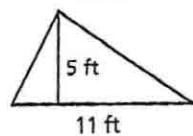
### ✓ Areas of Squares, Rectangles, Triangles

Find the area of each figure.

47.



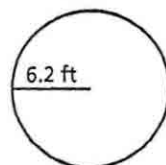
48.



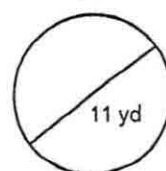
### ✓ Area of Circles

Find the area of each circle to the nearest tenth. Use 3.14 for  $\pi$ .

49.



50.



# Are You Ready? Answer Sheet

Name \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

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

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

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

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

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

15. \_\_\_\_\_

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

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

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

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

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

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

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

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

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

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

41. \_\_\_\_\_

42. \_\_\_\_\_

43. \_\_\_\_\_

44. \_\_\_\_\_

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47. \_\_\_\_\_

48. \_\_\_\_\_

49. \_\_\_\_\_

50. \_\_\_\_\_