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Name: \_\_\_\_\_

## Math 6 Summer Math Study Guide

After you have practiced the skills on Khan Academy (list available on [bdcs.org/read](https://www.khanacademy.org/read)), complete the following study guide. Be sure to show all work and describe your reasoning, as this study guide should be a resource for you at the beginning of the school year. If you have any questions, be sure to contact me at [gpinkerton@bdcs.org](mailto:gpinkerton@bdcs.org). I will reply within 48 hours Monday-Friday.

### Comparing Decimals through Thousandths

Complete the inequalities below with > (is greater than), < (is less than), or = (is equal to).

1. 16.5 \_\_\_\_\_ 16.45

2. 83.040 \_\_\_\_\_ 83.04

### Order Decimals

Order the numbers from least to greatest. *Put the lowest number on the left.*

3. 14, 0.997, 4.1

4. 1.101, 1.001, 0.113

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

### Round Decimals

5. Round 0.74140 to the nearest one

6. Round 1.965 to the nearest tenth

### Multiply and Divide by Powers of 10

Perform the operations below.

7.  $32.689 \times 10^1 =$

8.  $32.689 \times 10^2 =$

9.  $56 \div 10^2 =$

10.  $56 \div 10^3 =$

**Add decimals like 47.75 + 11.98**

Perform the operations below.

11.  $5.8 + 2.54 =$

12.  $47.75 + 11.98 =$

**Subtract decimals like 56.8 - 17.9**

Perform the operations below.

13.  $45.3 - 23.8 =$

14.  $49 - 3.3 =$

**Multiply decimals like 1.7 x 0.12**

Perform the operations below.

15.  $0.5 \times 3.3 =$

16.  $0.12 \times 8.1 =$

**Divide whole numbers like  $63 \div 12$  to get a decimal**

Perform the operations below.

17.  $21 \div 4 =$

18.  $27 \div 5 =$

**Add and Subtract Mixed Numbers with Unlike Denominators (No Regrouping)**

Perform the operations below.

19.  $5\frac{2}{3} + 2\frac{1}{6} =$

20.  $9\frac{7}{9} - 5\frac{2}{3} =$

**Multiply mixed numbers**

Perform the operations below.

21.  $5 \times 1\frac{3}{4} =$

22.  $2\frac{2}{3} \times 1\frac{3}{5} =$

**Answer Key**

1. >
2. =
3. 0.997, 4.1, 14
4. 0.113, 1.001, 1.101
5. 1
6. 2.0
7. 326.89
8. 3268.9
9. 0.56
10. 0.056
11. 8.34
12. 59.73
13. 21.5
14. 45.7
15. 1.65
16. 0.972
17. 5.25
18. 5.4
19.  $7\frac{5}{6}$
20.  $4\frac{1}{9}$
21.  $8\frac{3}{4}$
22.  $4\frac{4}{15}$