

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

# SUMMER MATH PACKET

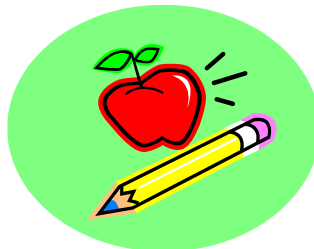


## 6th Grade

Southampton Township School #3

# Summer Packet Instructions

**Packet Due:**  
**September 3<sup>rd</sup>, 2014**  
(First Day of School)



- Complete each problem WITHOUT A CALCULATOR.
- Work is expected to be shown neatly in the actual packet for EVERY problem. NO WORK = NO CREDIT. Additional lined paper may be added if necessary.
- All final answers must be copied onto the ANSWER SHEET (last page of packet)
- **This packet will be GRADED and will count as 10 homework points.**
- There will also be quiz on this material shortly after returning to school.
- If you are stuck on a particular problem, check out some of the math websites below. Parents or classmates may also be used to help.

<http://aplusmath.com>  
<http://amathsdictionaryforkids.com>  
<http://funbrain.com>  
<http://math.com>  
<http://mathtv.com>

**Subtraction**

Find the difference between the two numbers in each problem. Feel free to use any method that you can use accurately and efficiently. Show all work.

$$\begin{array}{r} 313 \\ 743 \\ - 218 \\ \hline 525 \end{array}$$

1)

$$\begin{array}{r} 407 \\ - 198 \\ \hline \end{array}$$

2)

$$\begin{array}{r} 7,007 \\ - 2,426 \\ \hline \end{array}$$

3)

$$\begin{array}{r} 4,351 \\ - 1,245 \\ \hline \end{array}$$

4)

$$\begin{array}{r} 35,845 \\ - 15,926 \\ \hline \end{array}$$

5)

$$\begin{array}{r} 96,421 \\ - 43,306 \\ \hline \end{array}$$

**Multiplication**

Find the product of the two numbers in each problem. Feel free to use any method that you can use accurately and efficiently. Show all work.

$$\begin{array}{r} 54 \\ \times 16 \\ \hline 324 \\ + 540 \\ \hline 864 \end{array}$$

6)

$$\begin{array}{r} 65 \\ \times 4 \\ \hline \end{array}$$

7)

$$\begin{array}{r} 49 \\ \times 8 \\ \hline \end{array}$$

8)

$$\begin{array}{r} 87 \\ \times 39 \\ \hline \end{array}$$

9)

$$\begin{array}{r} 15 \\ \times 75 \\ \hline \end{array}$$

10)

$$\begin{array}{r} 195 \\ \times 58 \\ \hline \end{array}$$

### Division

Find the quotient in each problem. Feel free to use any method that you can use accurately and efficiently. Show all work.

11)

$$36 \overline{)2628}$$

12)

$$12 \overline{)264}$$

13)

$$7 \overline{)749}$$

14)

$$21 \overline{)2016}$$

15)

$$9 \overline{)1701}$$

16)

$$15 \overline{)585}$$

### Rounding

Underline the given place value. Look to the right. If this digit is 5 or greater, increase the underlined digit by 1. If the digit to the right is less than 5, keep the underlined digit the same. The underlined digit will be the last digit in the number.

Example: Round to the nearest hundredth.

$$0.5\dot{4}7 \rightarrow 0.55$$

Round to the nearest...

17)

tenth  
0.3479

18)

hundredth  
0.7553

19)

whole number  
3.268

20)

ten  
162.21

21)

thousandth  
0.0036

22)

hundred  
990.54

### Comparing Fractions

Compare the fractions. Find common denominators if needed. Insert < (less than), > (greater than), or = (equal to) between the fractions.

Example:  $\frac{1}{2} \bigcirc \frac{1}{4} \rightarrow \frac{2}{4} \bigcirc \frac{1}{4}$

23)  $\frac{2}{3} \bigcirc \frac{3}{6}$

24)  $\frac{3}{4} \bigcirc \frac{3}{8}$

25)  $\frac{7}{8} \bigcirc \frac{1}{2}$

26)  $\frac{3}{9} \bigcirc \frac{2}{3}$

### Ordering Fractions

Order the fractions from least to greatest. Find common denominators if needed.

Example:  $\frac{3}{4}, \frac{6}{14}, \frac{5}{7} \rightarrow \frac{3}{4} = \frac{21}{28}, \frac{6}{14} = \frac{12}{28}, \frac{5}{7} = \frac{20}{28} \rightarrow \frac{6}{14}, \frac{5}{7}, \frac{3}{4}$

27)  $\frac{1}{2}, \frac{3}{4}, \frac{2}{3}$

28)  $\frac{2}{4}, \frac{2}{5}, \frac{2}{3}$

29)  $\frac{30}{64}, \frac{5}{16}, \frac{3}{8}$

### Comparing Decimals

Insert < (less than), > (greater than), or = (equal to) between decimals.

Example: Compare using <, >, or =.

$1.2 \bigcirc 1.20 \rightarrow 1.2 \bigcirc 1.20$

30)  $0.205 \bigcirc 0.21$

31)  $1.03 \bigcirc 0.03$

32)  $0.04 \bigcirc 0.050$

33)  $0.1 \bigcirc 0.1000$

34)  $0.52 \bigcirc 0.500$

35)  $0.41 \bigcirc 0.405$

**Ordering Decimals**

Order the decimals from *least* to *greatest* and write the answer on the line. It may be helpful to line up the decimal points vertically, and add zeros when necessary so that each number has the same amount of digits. Compare decimal places from left to right.

Example: 0.402, 0.42, 0.375, 1.2

0.402

0.420

0.375

1.200

Answer: 0.375, 0.402, 0.42, 1.2

36) 0.1, 0.02, 0.01, 0.2, 1.2 \_\_\_\_\_

37) 0.33, 0.12, 0.127, 0.2, 4.5 \_\_\_\_\_

38) 0.418, 0.4, 0.040, 0.48 \_\_\_\_\_

### Adding Fractions

Remember the denominators need to be the same when adding fractions. Simplify the answers to lowest terms.

Example 1:  $\frac{4}{7} + \frac{3}{7} = \frac{7}{7} = \boxed{1}$

Example 2:  $\frac{2}{4} + \frac{3}{5} =$

$$\frac{2}{4} = \frac{10}{20} \quad \frac{3}{5} = \frac{12}{20} \rightarrow \frac{10}{20} + \frac{12}{20} = \frac{22}{20} = 1\frac{2}{20} = \boxed{1\frac{1}{10}}$$

39)  $\frac{2}{3} + \frac{5}{8}$

40)  $\frac{3}{6} + \frac{2}{4}$

41)  $\frac{5}{12} + \frac{5}{6}$

42)  $\frac{3}{8} + \frac{5}{10}$

43)  $\frac{7}{8} + \frac{1}{2}$

44)  $\frac{4}{9} + \frac{1}{2} =$

### Subtracting Fractions

Remember the denominators need to be the same when subtracting fractions. Simplify the answers to lowest terms.

Example 1:  $\frac{4}{7} - \frac{3}{7} = \boxed{\frac{1}{7}}$

Example 2:  $\frac{3}{4} - \frac{3}{5} =$

$$\frac{3}{4} = \frac{15}{20} \quad \frac{3}{5} = \frac{12}{20} \quad \rightarrow \quad \frac{15}{20} - \frac{12}{20} = \boxed{\frac{3}{20}}$$

45)  $\frac{3}{4} - \frac{2}{8}$

46)  $\frac{7}{9} - \frac{2}{3}$

47)  $\frac{5}{6} - \frac{1}{4}$

48)  $\frac{4}{9} - \frac{2}{6}$

49)  $\frac{8}{12} - \frac{2}{3}$

50)  $\frac{5}{6} - \frac{2}{5}$



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

## Summer Packet Answer Sheet

### Subtraction

- 1) \_\_\_\_\_
- 2) \_\_\_\_\_
- 3) \_\_\_\_\_
- 4) \_\_\_\_\_
- 5) \_\_\_\_\_

### Multiplication

- 6) \_\_\_\_\_
- 7) \_\_\_\_\_
- 8) \_\_\_\_\_
- 9) \_\_\_\_\_
- 10) \_\_\_\_\_

### Division

- 11) \_\_\_\_\_
- 12) \_\_\_\_\_
- 13) \_\_\_\_\_
- 14) \_\_\_\_\_
- 15) \_\_\_\_\_
- 16) \_\_\_\_\_

### Rounding

- 17) \_\_\_\_\_
- 18) \_\_\_\_\_
- 19) \_\_\_\_\_
- 20) \_\_\_\_\_
- 21) \_\_\_\_\_
- 22) \_\_\_\_\_

### Comparing Fractions

- 23) \_\_\_\_\_
- 24) \_\_\_\_\_
- 25) \_\_\_\_\_
- 26) \_\_\_\_\_

### Ordering Fractions

- 27) \_\_\_\_\_
- 28) \_\_\_\_\_
- 29) \_\_\_\_\_

### Comparing Decimals

- 30) \_\_\_\_\_
- 31) \_\_\_\_\_
- 32) \_\_\_\_\_
- 33) \_\_\_\_\_
- 34) \_\_\_\_\_
- 35) \_\_\_\_\_

### Ordering Decimals

- 36) \_\_\_\_\_
- 37) \_\_\_\_\_
- 38) \_\_\_\_\_

### Adding Fractions

- 39) \_\_\_\_\_
- 40) \_\_\_\_\_
- 41) \_\_\_\_\_
- 42) \_\_\_\_\_
- 43) \_\_\_\_\_
- 44) \_\_\_\_\_

### Subtracting Fractions

- 45) \_\_\_\_\_
- 46) \_\_\_\_\_
- 47) \_\_\_\_\_
- 48) \_\_\_\_\_
- 49) \_\_\_\_\_
- 50) \_\_\_\_\_