NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Please print your first and last name)

Sussex Academy

Summer Math Practice

Entering 6th GRADE

Dear Students and Parents,

Purpose:

To help students retain prior knowledge and be better prepared for 6th grade, all Sussex Academy students ***are required*** to complete this practice/review packet over the summer. **The packet and completed work is due on the first day of school.**

**It is also very important that students have “quick recall or fluency” with basic facts.** This includes all four operations (addition, subtraction, multiplication, and division) for the numbers 1-12.

**Options to improve quick recall and fluency with math facts:**

Play games online, there are a multitude of apps available that students will enjoy practicing as well as websites such as [www.aaamath.com](http://www.aaamath.com), [www.ixl.com](http://www.ixl.com), [www.firstinmath.com](http://www.firstinmath.com), [www.khanacademy.org](http://www.khanacademy.org), and others. These websites also offer help or lessons on a variety of topics that may help students complete the work included here. You can also do a search for any of the topics in a search engine and many more sites will be available to you.

Use flash cards, play games with hexahedron (dice) and regular playing cards, as well as board games that challenge students to handle and count money are also good options.

Use real-life situations that encourage students to use math. Figuring out tips in restaurants, estimating totals when purchasing items, or figuring out discounts for sale items without the use of a calculator or calculator app on their phone reinforces number sense problem solving.

**SHOW YOUR WORK and do not use a calculator!**

Many answers can be *neatly* written within the worksheet pages, however, if additional space is needed, you may use loose-leaf paper. Please label the page number, section title, and the problem number on your lined paper. Attach any loose-leaf paper to the back of the packet.

Have a great summer – and keep those math skills sharp!

Sussex Academy Math Department

Numbers and Operations

Add.

1. 15 + 21+7+45 =\_\_\_\_\_\_\_\_\_\_ 2. 123+ 1099 = \_\_\_\_\_\_\_\_\_\_\_\_

3. 456+93+12 = \_\_\_\_\_\_\_\_\_\_\_ 4. 507 + 1208+ 19 = \_\_\_\_\_\_\_\_

5. 46+ 12,098 = \_\_\_\_\_\_\_\_\_\_\_ 6. 1,432+ 23,781 = \_\_\_\_\_\_\_\_\_\_\_\_\_

Subtract.

1. 456 – 232 =\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. 723 – 347 = \_\_\_\_\_\_\_\_\_\_\_

3. 328 – 67 = \_\_\_\_\_\_\_\_\_\_\_\_\_ 4. 1, 256 – 607 = \_\_\_\_\_\_\_\_\_

5. 23, 781 – 632 = \_\_\_\_\_\_\_\_\_ 6. 6,005 – 548 =\_\_\_\_\_\_\_\_\_

Multiply.

1. 45 x 9 = \_\_\_\_\_\_\_\_ 2. 234 x 7 = \_\_\_\_\_\_\_\_\_\_

3. 34 x 12 =\_\_\_\_\_\_\_\_ 4. 1, 008 x 11 = \_\_\_\_\_\_\_\_\_\_\_

5. 7 x 3 x 9 = \_\_\_\_\_\_\_ 6. 385 x 243 = \_\_\_\_\_\_\_\_\_\_\_

Divide.

1. 489 ÷ 3 = \_\_\_\_\_\_\_\_ 2. 63 ÷ 7 = \_\_\_\_\_\_

3. 549 ÷ 6 = \_\_\_\_\_\_\_\_\_\_ 4. 823 ÷ 4 =\_\_\_\_\_\_\_\_\_\_\_\_

5. 1057 ÷ 5 = \_\_\_\_\_\_\_\_\_ 6. 89 ÷12 = \_\_\_\_\_\_\_\_\_\_\_

Challenge Problem!

Solve.

1. Miriam’s uncle donated 120 cans of juice and 90 packets of cheese crackers for the school field trip. Each student is to receive the same number of cans of juice and the same number of packets of crackers. What is the greatest number of students that can go on the field trip and share the food equally with no food left over? How many cans of juice and packets of crackers will each student get?

Show all Work.

Number Sense

Round to the underlined place value.

1. 3.875 \_\_\_\_\_\_\_\_ 2. 6.241 \_\_\_\_\_\_\_\_ 3. 9.316 \_\_\_\_\_\_\_\_\_\_\_

Insert < or > in each number sentence.

1. 34 \_\_\_\_ 3.4 2. 0 .056 \_\_\_\_0.560 3. 10.04 \_\_\_\_ 10.4

4. 45,365 \_\_\_\_ 43,365 5. 873.07\_\_\_ 873.071 6. .005 \_\_\_\_.023

Write the given number in standard form.

1. One thousand, six hundred five and three tenths.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Seven hundred one thousand, nine hundred. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Five million, thirty-seven thousand, forty-two. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Six hundredths. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Three hundred –four thousandths.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Ten and seven hundredths. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Write next three multiples of each number.

1. 4 \_\_\_ \_\_\_\_ \_\_\_\_\_
2. 17 \_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Challenge Problem!

1. Margo’s locker combination consists of the first three *even* multiples of 9, in order. What is her locker combination? \_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_

Operations with Fractions

Add.

1. 7 + 4 ¾ \_\_\_\_\_\_ 2. 3½ + 2 ¼ = \_\_\_\_\_\_

3. 2/3 + 1/6 = \_\_\_\_\_\_\_ 4. 2 1/3 + 5 ¼ = \_\_\_\_\_\_

5. 1/12 + 2/3 = \_\_\_\_\_\_\_ 6. 3/5 + 7/5 = \_\_\_\_\_\_\_\_

Subtract.

1. 6 – 1 ¾ = \_\_\_\_\_\_ 2. 9½ - 6 4/9 = \_\_\_\_\_\_\_\_

3. ¾ - ½ = \_\_\_\_\_\_\_ 4. 7/8 – 3/4 = \_\_\_\_\_\_\_\_\_

1. 2½ - ¾ = \_\_\_\_\_\_\_\_ 6. 11/12 - 8/12 =\_\_\_\_\_\_\_

Multiply.

1. ¾ x ¾= \_\_\_\_\_\_\_\_ 2. 2/5 x 5 ½ =\_\_\_\_\_\_\_\_

3. 7/8 x 8/10 =\_\_\_\_\_\_\_\_ 4. 1/3 x 3/5 = \_\_\_\_\_\_\_\_\_

5. 3½ x 4¾ = \_\_\_\_\_\_\_\_\_ 6. 3/5 x 5/9 x 2/7 =\_\_\_\_\_\_\_

Divide.

1. ¾ ÷ ½ = \_\_\_\_\_\_ 2. 5/8 ÷ 2/3 = \_\_\_\_\_\_ 3. 4½ ÷ 2 = \_\_\_\_\_\_\_

Operations with Decimals

Add.

1. 7.039 + 0.28 = \_\_\_\_\_\_\_\_ 2. 1.467 + 52.43 = \_\_\_\_\_\_

3. 13.87 + 6.8412 = \_\_\_\_\_\_\_\_\_ 4. 21. 39 + 9 + 31.18 =\_\_\_\_\_\_\_

Subtract.

1. 31.18 – 21.39 =\_\_\_\_\_\_\_ 2. 4.844 – 0.56= \_\_\_\_\_\_\_\_\_\_\_\_

3. 82.009 - 9.23 = \_\_\_\_\_\_\_ 4. 100.04 – 4.234= \_\_\_\_\_\_\_\_\_\_

Decimal Operations

Multiply.

1. 45.6 x 9 = \_\_\_\_\_\_\_\_ 2. 234.4 x 4.2 =\_\_\_\_\_\_\_\_

Divide.

1. 623.1 ÷ 3 = \_\_\_\_\_\_\_\_ 2. 402.25 ÷ 0.05 = \_\_\_\_\_\_\_

Solve the problem using decimals.

The following school supply items are on sale. Mary only has $25.00 to spend. Make a list showing how many of each item she could purchase and not go over her limit. (Your choice of items is entirely up to you, but you must show all work.)

|  |  |  |
| --- | --- | --- |
| Pencils 79 ¢ each | Notebook 99¢ ea. | Protractor $ 3.39ea |
| Erasers 49 ¢ each | Scissors 89 ¢ ea. | Sharpies $ 2.89 ea. |
| Pens $ 1.09 each | Color Pencils (pk. of 8) $ 5.29 | |
| Highlighters $1.19ea. | Pencil sharpener  49 ¢ each | Spiral Notebook  $ 2.29 each |

DATA, STATISTICS, & PROBABILITY

Find the mean, median, mode, and range for each set of data.

1. 30, 38, 42, 38, 17

Mean \_\_\_\_\_\_\_Median\_\_\_\_\_\_\_\_ Mode\_\_\_\_\_\_\_\_ Range \_\_\_\_\_\_\_\_\_

2. 19, 19, 19, 34, 23, 23, 16

Mean \_\_\_\_\_\_\_Median\_\_\_\_\_\_\_\_ Mode\_\_\_\_\_\_\_\_ Range \_\_\_\_\_\_\_\_\_

3. Make a Line plot of the set of numbers: 19, 19, 19, 34, 23, 23, 16

Geometry

Name three properties that these quadrilaterals have in common.

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

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

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

Figure A Figure B Figure C

4.

Find the Volume of this shape if each side length is 7 cm.

V = \_\_\_\_\_\_\_\_\_\_\_\_

7 cm

5. How many inches are there in one yard? \_\_\_\_\_\_\_\_\_

6. How many days are there in one year? \_\_\_\_\_\_\_\_\_\_

7. How many feet are there in one mile? \_\_\_\_\_\_\_\_\_\_

8. Draw a picture of two perpendicular lines.