Dear rising 6th grader,

Welcome to the 6th grade! This summer you will need to complete the attached math packet. It will help keep your math skills sharp and prepared for math this coming school year. I have set this packet up so that you have one page to do each week. Do not procrastinate! If you do a page a week, you will easily be able to finish. This packet is due on the first full day of class. It will be counted as your first homework grade of the new school year.

For additional practice, you may want to purchase a summer math workbook called Summer Bridge Workbook. It is available at Barnes and Noble or Amazon. This is not a requirement. For extra help, khanacademy.org is an excellent resource.

Have a fun and safe summer.

Go Stars!

Mrs. Quinby

Parents,

Please sign each page of the math packet after reviewing it with your child.

<u>Math Packet Due: The First Full Day of School</u>

Practice Week 1

Solve. Watch the signs. Watch the decimal points.

1. 3.2 – 1.18 = _____

2. 3.2 X .18 = _____

3. 6.7 – 3.15 = _____

4. 2.75 + 4.36 _____

5. 23 X 4.5 =_____

6. 5 – 2.7 = _____

7. 0.1 X 0.3 = _____

8. 0.05 X 0.4 = _____

Complete the problems.

9. Find the Least Common Multiple of: 2 and 4.

10. Find the Least Common Multiple of: 8 and 12.

11. Find the Least Common Multiple of: 6 and 9.

12. Find the Least Common Multiple of: 7 and 11.

13. Find the Least Common Multiple of: 14 and 21.

14. Find the Greatest Common Factor of: 12 and 20.

15. Find the Greatest Common Factor of: 15 and 30.

16. Find the Greatest Common Factor of: 16 and 40.

17. Find the Greatest Common Factor of: 60 and 12.

18. Find the Greatest Common Factor of: 9 and 4.

Parent signature_____

Practice Week 2

Divide. Don't use remainders. All the problems have exact decimal answers.

1. $5\overline{)8}$
2. $5\overline{)9}$
3. $5\overline{)2.5}$
4. $5\overline{)2.8}$

5. $9\overline{)8.1}$
6. $8\overline{)60}$
7. $2\overline{)9.3}$
8. $6\overline{)12.72}$

9. $8\overline{)64.24}$
10. $5\overline{)3.9}$
11. $2\overline{)7}$
12. $2\overline{)17}$

Parent Signature_____

Practice Week 3

Divide. Give the exact answers. Check your answers to see if they make sense.

1. $5\overline{)45}$
2. $50\overline{)450}$
3. $500\overline{)4500}$
4. $50\overline{)4500}$

5. $50\overline{)45}$
6. $80\overline{)56}$
7. $80\overline{)560}$
8. $40\overline{)36}$

Simplify. Watch the signs. Use shortcuts when you can.

9. 45.9 ÷ 1000
10. 45.9 × 100

11. 45.9 ÷ 10
12. 937 ÷ 10

13. 93.7 ÷ 1000
14. 1.25 × 10

Parent's Signature_____

Practice Week 4

For each problem approximate an answer and then do the division. Write your remainder as a fraction in lowest terms.

1. $33\overline{)1862}$ 2. $41\overline{)8000}$ 3. $16\overline{)1718}$ 4. $31\overline{)9548}$

5. $39\overline{)4281}$ 6. $12\overline{)6096}$ 7. $68\overline{)1445}$ 8. $46\overline{)9154}$

9. $33\overline{)6634}$ 10. $23\overline{)8387}$ 11. $11\overline{)1361}$ 12. $61\overline{)4777}$

Parent's Signature_____

Practice Week 5

Change each mixed number to an improper fraction.

1. $3\frac{1}{5}$
2. $2\frac{3}{5}$
3. $4\frac{3}{7}$
4. $1\frac{1}{6}$
5. $4\frac{3}{7}$
6. $7\frac{2}{5}$

Change each improper fraction to a mixed number.

7. $\frac{11}{4}$
8. $\frac{16}{7}$
9. $\frac{21}{5}$
10. $\frac{13}{8}$
11. $\frac{17}{4}$
12. $\frac{65}{9}$

Add or subtract. Watch the signs. Reduce answers to lowest terms.

13. $\frac{5}{6}-\frac{2}{6}$
14. $\frac{4}{9}-\frac{3}{9}$
15. $\frac{3}{8}+\frac{5}{8}$
16. $\frac{7}{8}-\frac{1}{8}$
17. $\frac{9}{10}-\frac{7}{10}$
18. $\frac{2}{5}-\frac{2}{5}$

Multiply or divide. Write your answers in lowest terms.

19. $\frac{2}{5}\div\frac{2}{10}$
20. $\frac{1}{5}\times\frac{3}{10}$
21. $\frac{3}{5}\div\frac{2}{10}$
22. $\frac{6}{10}\times\frac{4}{5}$
23. $\frac{6}{10}\times\frac{4}{5}$
24. $\frac{1}{2}\div\frac{5}{10}$

Parent's signature_____

Practice Week 6

Use $<$, $>$, or $=$ to compare the fractions.

1. $\frac{2}{3} \square \frac{3}{4}$ 2. $\frac{2}{5} \square \frac{1}{4}$ 3. $\frac{1}{4} \square \frac{3}{8}$ 4. $\frac{4}{6} \square \frac{6}{9}$

5. $\frac{1}{3} \square \frac{5}{12}$ 6. $\frac{2}{3} \square \frac{4}{5}$ 7. $\frac{3}{10} \square \frac{7}{20}$ 8. $\frac{3}{5} \square \frac{9}{15}$

Solve these problems.

9. Mason has completed $\frac{5}{12}$ of his homework. Tom has completed $\frac{3}{8}$ of the home work. Who has completed more of the homework?

10. Elaine measured the lengths of two paper clips. One was $\frac{5}{8}$ of an inch and the other was $\frac{7}{16}$ of an inch. Which was longer?

11. Joe answered $\frac{11}{15}$ of the questions correctly on a test, while Jim answered $\frac{3}{5}$ of the questions correctly. Who answered more correctly?

Add or subtract. Watch the signs.

12. $\frac{1}{4}+\frac{2}{3}$ 13. $\frac{3}{5}-\frac{1}{10}$ 14. $\frac{4}{9}+\frac{1}{3}$ 15. $\frac{6}{8}-\frac{3}{4}$

16. $\frac{1}{3}+\frac{4}{7}$ 17. $\frac{3}{4}-\frac{4}{7}$ 18. $\frac{3}{7}+\frac{1}{2}$ 19. $\frac{2}{5}+\frac{1}{4}$

Parent's signature_____

Practice Week 7

Add. Give your answers as mixed numbers in lowest terms.

1. $5\frac{1}{7}+3\frac{4}{7}$

2. $2\frac{1}{5}+1\frac{1}{10}$

3. $3\frac{3}{4}+2\frac{1}{8}$

Subtract. Give your answers in lowest terms.

4. $5\frac{3}{7}-2\frac{1}{7}$

5. $5\frac{3}{4}-1\frac{1}{8}$

6. $5\frac{1}{8}-1\frac{3}{4}$

Add or subtract. Watch the signs.

7. $7\frac{1}{8}+6\frac{3}{4}$

8. $5\frac{5}{8}-3\frac{3}{8}$

9. $4\frac{1}{6}-2\frac{1}{2}$

10. $6\frac{1}{6}+4\frac{1}{4}$

11. $1\frac{7}{8}+2\frac{3}{4}$

12. $4\frac{5}{8}-2\frac{3}{4}$

Parent's Signature_____

Practice Week 8

Multiply or divide.

1. $4 \times \frac{3}{4}$

2. $\frac{1}{5} \times 7$

3. $\frac{12}{11} \times 4\frac{1}{4}$

4. $10 \times \frac{2}{4}$

5. $1\frac{1}{7} \div 4\frac{4}{5}$

6. $\frac{3}{4} \div \frac{5}{8}$

Round the following numbers to the accuracy of the underlined digit. For example, 56<u>7</u>8 means to round to the nearest ten. The answer is 5680.

7. 986<u>1</u>17

8. 98492<u>8</u>

9. 91<u>2</u>204

10. 6<u>9</u>6457

11. 6<u>2</u>.58

12. 543.<u>0</u>02

13. 507.4<u>8</u>5

14. 621.3<u>9</u>5

Parent's Signature_____