Students and Parents:

I am really looking forward to teaching 6th grade math next year. I know the 2019-2020 school year ended differently than any of us could've expected and the 2020-2021 school year will likely look different than we're used to but I'm very excited to have the opportunity to teach you.

I know fractions may give you all some difficulty, I'd still like you all to try the problems I've included in the packet. I included the answer for the first problem of each fraction section, but I just want you to do your best!

Packets will be due first full day of school, Thursday 8/6. Please show all your work, if there isn't room just complete on paper and staple to back of packet! I look forward to the school year and getting to know you all and help you grow your love for math :)

Thanks,

Mrs. Dubberley

Session 1: Decimals - Place Value Write the following as a decimal and as a fraction or mixed number.

	decimal	fraction or mixed number (do not simplify fraction)
Example: six and forty two hundredths	6.42	$6\frac{42}{100}$
1) fifty-nine hundredths	_____	_____
2) thirty and seven tenths	_____	_____
3) two and twelve thousandths	_____	_____
4) sixty-five ten-thousandths	_____	_____
5) twenty and one thousandth	_____	_____
6) 800 + 20 + 4 + 0.08 + 0.002	_____	_____
7) 0.4 + 0.07 + 0.0003	_____	_____
8) 0.5 + 0.05 + 0.0005	_____	_____

Write each decimal in expanded form.

Example: 435.93 400 + 30 + 5 + 0.9 + 0.03

9) 627.804 _____

10) 99.228 _____

11) 51.0437 _____

Write the following in standard form as a <u>decimal.</u>

12) sixty-nine thousandths _____

13) forty and twenty-seven ten-thousandths _____

14) nine hundred twenty and sixteen hundredths _____

15) one thousand fifty-six and three tenths _____

Write the <u>value</u> of the underlined digit.

Example: 67.09<u>3</u>4 0.003

16) 879.237<u>8</u> _____

17) 5,<u>7</u>85.55 _____

18) 60.89<u>9</u>4 _____

19. 7<u>3</u>2,986.2 _____

Write the following in word form.

20) 89.35 _____

21) 29.5675 _____

_____

22) 21,456.2 _____

_____

Session 2: Decimals - Round, Estimate, Compare, Add, and Subtract

Round each number to the underlined digit.

Example: 745.0<u>7</u>87 745.08

1) 26.<u>0</u>63 _____ 2) 2.8<u>9</u>4 _____

3) 531.22<u>5</u>9 _____ 4) 8<u>3</u>.963 _____

5) 3<u>4</u>5.98 _____ 6) <u>3</u>,457 _____

7) 12,<u>3</u>45.876 _____ 8) 3<u>2</u>4,534 _____

Round 239.2875 to the place named.

9) ones _____ 10) hundredths _____ 11) tens _____

Round 45,345.098 to the place named

12) thousands _____ 13) tenths _____ 14) hundreds _____

Estimate the sum or difference by rounding to the nearest whole number (ones). Show your work for each problem.

17) 6.7875
+ 9.4217

18) 130.82
- 65.62

Estimate the sum or difference by rounding to the nearest tenth.
Show your work for each problem.

19) 22.93
+ 4.35

20) 24.898
- 8.266

Estimate to Compare. Round to the nearest whole number (ones).
Write <, >, or = in the blank. Use expression form!

13) 20.24 - 8.69 _____ 19.78 - 8.04

14) 28.782 + 12.364 _____ 18.224 + 23.939

Find the sums or differences. Decimals stay lined up!

Add

15) 6.6
+ 8.2

16) 5.758
+ 2.08

17) 9.28
+ 0.469

18) 75.45
+ 6.418

Subtract

19) 85.58 + 9.63

20) 32.9 + 45.02 + 36.9

21) 29.05 - 9.26

22) 8.007 - 2.259

23) 52.18 - 35.1

24) 88.55 - 26.399

25) 46.9 - 15.633

26) 902 - 30.3

Session 3: Decimals - Multiply

Find the Product. Be careful about placing the decimal!

1) 3.28 x 6

2) 75.4 x 4

3) 92.35 x 8

4) 32.307 x 7

5) 15.9 x 0.5

6) 4.28 x 0.08

7) 26.741 x 0.2

8) 5.9143 x 0.06

9) 5.672 x 2.3

10) 39.373 x 0.53

11) 74.17 x 4.7

12) 636.11 x 2.42

13) 0.002
x 0.9

14) 0.063
x 0.7

15) 4.0003
x 0.05

16) 30.09
x 0.04

Find the Product. After getting the product round to the <u>nearest cent</u> (hundredth place). Write money correctly.

17) $0.62
x 0.08

18) $0.55
x 0.05

19) $2.39
x 0.07

20) $5.12
x 0.04

Session 4: Decimals - Divide

Decimals - Whole Numbers: Find the quotient.
Make sure decimal is in correct place

1.) $6\overline{)8.04}$

2.) $5\overline{)27.5}$

3.) $8\overline{)6.048}$

4.) $6\overline{)50.4}$

5.) $2\overline{)2.36}$

6.) $4\overline{)\$180}$

7.) $3\overline{)11.16}$

8.) $9\overline{)64.071}$

9.) $8\overline{)45.864}$

7.

10.) $7\overline{)\$281.96}$

11.) $6\overline{)80.73}$

12.) $26\overline{)78.52}$

For the following problems, do these 3 steps:
a) move the decimal
b) divide
c) check by multiplying - Multiply your answer by the original divisor (outside the house) and it should equal original number that is in the house.

move the decimal rewrite and divide check

13) $1.8\overline{)68.58}$

14) $0.34\overline{)8.738}$

Session 5: Fractions - Equivalents and Comparing, Simplest form, Mixed Numbers, and Improper Fractions

Complete the equivalent fractions

1) $\frac{1}{2} = \frac{9}{18}$ 2) $\frac{2}{3} = \frac{\quad}{15}$ 3) $\frac{18}{30} = \frac{3}{\quad}$

4) $\frac{\quad}{20} = \frac{8}{10}$ 5) $\frac{3}{\quad} = \frac{9}{24}$ 6) $\frac{11}{44} = \frac{1}{\quad}$

Write each fraction in simplest form.

1) $\frac{12}{21} = \frac{4}{7}$ 2) $\frac{15}{60}$ _____ 3) $\frac{8}{10}$ _____ 4) $\frac{9}{27}$ _____

5) $\frac{16}{20}$ _____ 6) $\frac{8}{32}$ _____ 7) $\frac{9}{15}$ _____ 8) $\frac{30}{35}$ _____

Write the mixed numbers as improper fractions.

13) $7\frac{3}{4}$ =31/4____ 14) $3\frac{4}{5}$ _____ 15) $5\frac{3}{8}$ _____

16) $10\frac{4}{7}$ _____ 17) $15\frac{2}{3}$ _____ 18) $7\frac{2}{9}$ _____

Write the improper fractions as mixed numbers. Answer in simplest form.

19) $\frac{19}{5}$ =3 4/5 20) $\frac{25}{12}$ _____ 21) $\frac{19}{9}$ _____ 22) $\frac{39}{4}$ _____

23) $\frac{56}{6}$ _____ 24) $\frac{55}{10}$ _____ 25) $\frac{49}{6}$ _____ 26) $\frac{37}{5}$ _____

Session 6: Fractions - Add and Subtract

Add Like Fractions. Write your answers in simplest form.

1) $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$

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

3) $\frac{6}{15} + \frac{3}{15}$

4) $\frac{6}{10} + \frac{7}{10}$

Subtract Like Fractions: Write your answers in simplest form.
Hint: If you get an improper fraction for an answer (numerator higher than the denominator), change to a mixed number

5) $\frac{8}{9} - \frac{2}{9}$

6) $\frac{7}{8} - \frac{5}{8}$

7) $\frac{15}{20} - \frac{5}{20}$

8) $\frac{16}{17} - \frac{9}{17}$

$\frac{6}{9} = 2/3$

Session 7: Fractions - Add and Subtract Mixed Numbers

Subtract Mixed Numbers
If necessary, first rename (borrow) the mixed number (#8)

5) $12\frac{7}{2} - 5\frac{7}{2}$

6) $20\frac{8}{3} - 15\frac{8}{3}$

7) $17\frac{12}{3} - 9\frac{12}{3}$

8) $10\frac{18}{9} - 2\frac{18}{9}$

7 4/7