FRACTION CITY (FA)

1) Label the three parts of the common fraction shown below:

$$\frac{4}{7}$$

Numerator (top), Fraction Bar (middle), Denominator (bottom)

2) Using different numbers, list three equivalent fractions for each of the fractions listed: VARIOUS

1/3 = 2/6 , 3 /9 , 4 /12

2/5 = 4/10 , 6/15 , 8/20

7/4 = 14/8 , 21/12 , 28 /16

3) In the list of fractions below, circle those that are in simplest form; rename in simplest form those that are not:

2/6 = 1/3 **(5/8)** **9/12 = 3/4**

6/9 = 2/3 **(3/10)** **8/6 = $4/3$ or $1\ 1/3$**

(1/4) **8/16 = 1/2** **7/21 = 1/3**

4) Solve the following proportions (by making equivalent fractions):

a) A/3 = 99/27 **A = 11**
b) 11/B = 77/14 **B = 2**
c) 9/10 = C/60 **C = 54**
d) 18/24 = 6/D **D = 8**

5) Evaluate the problems below:

a) What is 1/4 of 16? **4**

b) 7 is 1/3 of what? **21**

c) What fractional part of 40 is 4? **$1/10$**

d) Find 2/3 of 21. **14**

e) 5 is 1/7 of what value? **35**

f) 14 is what fractional part of 21? **$2/3$**

6) Fill in the chart below

fraction	decimal	percent
4/5	**0.8**	**80%**
1/2	0.5	**50%**
1/10	**0.1**	10%
1/8	**0.125**	**12.5%**
1/4	0.25	**25%**
1/3	**$0.\overline{3}$**	$33\frac{1}{3}$ %

7) Compare using <, >, =

3/4 _<_ 7/8
1/10 _<_ 2/5
1/4 _=_ 4/16
1/5 _<_ 5/10
8/7 _>_ 3/3

8) What fractional part of each shape below is shaded?

2/5 **3/8**

9) Arrange in <u>increasing</u> order:

4/10, 0/3, 7/7, 3/15, 4/5
0/3, 3/15, 4/10, 4/5, 7/7

10) Add:

a) $5 + 3\ 3/4 + 5/4 =$ **10**
b) $1/3 + 1/3 + 2/3 =$ **$1\ 1/3$**
c) $3\ 2/3 + 4\ 5/8 + 6\ 1/2 =$ **$14\ 19/24$**
d) $3/5 + 3/10 + 2/5 + 7/10 =$ **2**

11) Subtract:

a) $8 - 2\ 1/5 =$ **$5\ 4/5$**
b) $7\ 3/10 - 1/5 =$ **$7\ 1/10$**
c) $2\ ½ - 1\ 11/12 =$ **$7/12$**
d) $5\ 4/7 - 3 =$ **$2\ 4/7$**

12) Multiply:

a) 4/5 X 5/6 X 6/7 X 7/8 = **½**
b) $6\ 2/3$ X $6/25$ X $7/7 =$ **$1\ 3/5$**
c) $3\ ½$ X $2/7 =$ **1**
d) 35 X $0/5 =$ **0**

_____KEY_____

Name

13) Divide:

a) $4 \div 1/3 =$ **12**
b) $1/5 \div ½ =$ **$2/5$**
c) $2\ 2/5 \div 1/5 =$ **12**
d) $6\ 2/3 \div 9/9 =$ **$6\ 2/3$**

14) How much greater is 1/3 of 27 than 2/3 of 12?

1

15) How much less is 1 ½ times 6 than 7/8 of 16?

5

16) What is the probability of choosing a vowel from the word fraction when a single letter is drawn at random?

3/8

17) Using a fair cubical die, what is the probability of rolling a number greater than 2 on your next roll?

2/3

18) On the number line, what value is 1/3 of the distance from 2 to 11?

5

19) Find the average (mean) of :

$2\ 1/4$, $4\ 3/20$, $3\ 1/5$

$3\ 1/5$

20) Optional local question