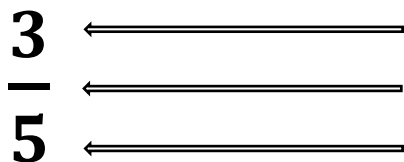


FRACTION CITY (FB)

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



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

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

$1/4 = 2/8, 3/12, 4/16$

$2/3 = 4/6, 6/9, 8/12$

$6/5 = 12/10, 18/15, 24/20$

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

$5/6$ $2/8 = 1/4$ $10/12 = 5/6$

$3/9 = 1/3$ $2/10 = 1/5$ $8/4 = 2$

$7/14 = 1/2$ $4/16 = 1/4$ $11/20$

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

a) $A/2 = 36/6$ **A = 12**

b) $7/B = 10/30$ **B = 21**

c) $18/3 = C/5$ **C = 30**

d) $4/28 = 1/D$ **D = 7**

5) Evaluate the problems below:

a) What is $1/5$ of 15? **3**

b) 8 is $1/3$ of what? **24**

c) What fractional part of 20 is 4? $1/5$

d) Find $2/3$ of 18. **12**

e) 7 is $1/7$ of what value? **49**

f) 15 is what fractional part of 21? $5/7$

6) Fill in the chart below

fraction	decimal	percent
$3/5$	0.6	60%
$1/10$	0.1	10%
$1/2$	0.5	50%
$1/4$	0.25	25%
$3/4$	0.75	75%
$2/3$	0.6	$66\frac{2}{3}\%$

7) Compare using $<$, $>$, $=$

$3/4 > 3/8$

$4/10 = 2/5$

$1/4 = 5/20$

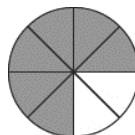
$1/3 < 5/10$

$8/7 < 2/1$

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



$2/5$



$6/8$ or $3/4$

9) Arrange in decreasing order:

$4/4, 2/3, 1/7, 0/12, 7/5$

$7/5, 4/4, 2/3, 1/7, 0/12$

10) Add:

a) $4 + 3\frac{1}{4} + \frac{3}{4} = 8$

b) $1/5 + 6/5 + 4/10 = 1\frac{4}{5}$

c) $8\frac{2}{3} + 4\frac{7}{8} + 5\frac{1}{2} = 19\frac{1}{24}$

d) $2/5 + 7/10 + 1/2 + 9/10 = 2\frac{1}{2}$

11) Subtract:

a) $2 - 1/5 = 1\frac{4}{5}$

b) $5\frac{3}{10} - \frac{4}{5} = 4\frac{1}{2}$

c) $2\frac{1}{2} - 1\frac{5}{12} = 1\frac{1}{12}$

d) $9\frac{2}{7} - 3 = 6\frac{2}{7}$

12) Multiply:

a) $2/3 \times 3/4 \times 4/5 \times 7/7 = \frac{2}{5}$

b) $8\frac{2}{3} \times 0\frac{0}{25} \times 7\frac{7}{8} = 0$

c) $3\frac{1}{2} \times 3\frac{1}{2} = 12\frac{1}{4}$

d) $35 \times \frac{4}{5} = 28$

KEY

Name _____

13) Divide:

a) $3 \div \frac{1}{5} = 15$

b) $\frac{1}{6} \div \frac{2}{3} = \frac{1}{4}$

c) $3\frac{2}{7} \div \frac{1}{7} = 23$

d) $5 \div 2\frac{1}{2} = 2$

14) How much greater is $4/5$ of 20 than $1/3$ of 30?

6

15) How much less is $2\frac{1}{2}$ times 2 than $3/4$ of 12?

4

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

$4/9$

17) Using a fair cubical die, what is the probability of rolling a number greater than 5 on your next roll?

$1/6$

18) On the number line, what value is $1/4$ of the distance from 3 to 11?

5

19) Find the average (mean) of :

$2\frac{2}{5}, 8\frac{3}{5}, 4$

5

20) Optional local question