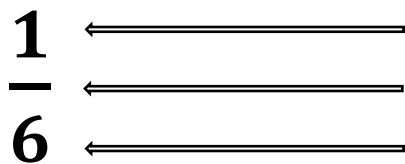


FRACTION CITY (FD)

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



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

$1/2 =$ / , / , /

$4/5 =$ / , / , /

$7/3 =$ / , / , /

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

$4/9$ $8/10$ $1/16$

$6/9$ $3/15$ $6/3$

$5/5$ $14/16$ $11/12$

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

- a) $A/15 = 4/12$
- b) $13/B = 39/9$
- c) $5/2 = C/3$
- d) $10/12 = 25/D$

5) Evaluate the problems below:

- a) What is $1/3$ of 24?
- b) 7 is $1/5$ of what?
- c) What fractional part of 12 is 9?
- d) Find $2/3$ of 6.
- e) 4 is $1/8$ of what value?
- f) 9 is what fractional part of 27?

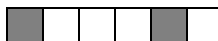
6) Fill in the chart below

fraction	decimal	percent
$5/5$		
	0.2	
		90%
$1/3$		
	0.4	
		75%

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

$5/4$ _____ $5/6$
 $1/10$ _____ $2/20$
 $1/4$ _____ $10/40$
 $1/8$ _____ $1/9$
 $6/3$ _____ $3/6$

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



9) Arrange in increasing order:

$5/6$, $3/3$, $4/8$, $0/12$, $6/5$

10) Add:

- a) $5 + 2 \frac{1}{3} + \frac{2}{3} =$
- b) $\frac{1}{3} + \frac{1}{6} + \frac{1}{9} =$
- c) $2 \frac{3}{4} + 3 \frac{5}{8} + 1 \frac{1}{2} =$
- d) $\frac{1}{2} + \frac{2}{2} + \frac{3}{2} + \frac{4}{2} =$

11) Subtract:

- a) $4 - \frac{2}{3} =$
- b) $3 \frac{1}{10} - 1 \frac{3}{5} =$
- c) $6 \frac{3}{4} - 2 \frac{1}{4} =$
- d) $7 \frac{3}{10} - 2 =$

12) Multiply:

- a) $\frac{8}{8} \times \frac{4}{5} \times \frac{5}{6} \times \frac{6}{7} =$
- b) $\frac{5}{6} \times \frac{4}{5} \times \frac{7}{3} \times \frac{0}{4} =$
- c) $2 \frac{1}{2} \times 2 \frac{1}{2} =$
- d) $15 \times \frac{3}{5} =$

Name _____

13) Divide:

- a) $9 \div \frac{1}{2} =$
- b) $\frac{1}{6} \div \frac{1}{3} =$
- c) $3 \frac{2}{5} \div \frac{1}{5} =$
- d) $10 \div 2 \frac{1}{2} =$

14) How much greater is $5/6$ of 12 than $7/10$ of 10?

15) How much less is $7 \frac{1}{2}$ times 2 than $7/8$ of 24?

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

17) Using a fair cubical die, what is the probability of rolling a number less than 3 on your next roll?

18) On the number line, what value is $1/6$ of the distance from 5 to 17?

19) Find the average (mean) of :

$1 \frac{1}{4}$, $5 \frac{1}{2}$

20) Optional local question