

FRACTION CITY (FC)

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

$\frac{2}{9}$

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

$1/5 =$ / , / , /

$3/4 =$ / , / , /

$7/2 =$ / , / , /

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

$3/6$ $8/8$ $5/12$

$7/9$ $3/9$ $8/3$

$1/5$ $9/16$ $7/12$

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

- a) $A/4 = 52/13$
- b) $15/B = 30/22$
- c) $9/10 = C/70$
- d) $18/9 = 8/D$

5) Evaluate the problems below:

- a) What is $1/2$ of 26?
- b) 7 is $1/4$ of what?
- c) What fractional part of 12 is 4?
- d) Find $2/3$ of 15.
- e) 3 is $1/9$ of what value?
- f) 3 is what fractional part of 21?

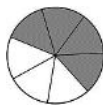
6) Fill in the chart below

fraction	decimal	percent
$2/5$		
	0.6	
		30%
$3/4$		
	0.25	
		15%

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

$5/4$ _____ $3/8$
 $2/10$ _____ $2/5$
 $1/4$ _____ $5/20$
 $4/8$ _____ $5/10$
 $6/6$ _____ $6/7$

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



9) Arrange in decreasing order:

$4/5$, $0/3$, $1/8$, $12/12$, $9/3$

10) Add:

- a) $7 + 2 \frac{1}{5} + \frac{4}{5} =$
- b) $2/3 + 1/6 + 4/9 =$
- c) $3 \frac{1}{4} + 3 \frac{7}{8} + 3 \frac{1}{2} =$
- d) $1/5 + 1/4 + 1/2 + 1/10 =$

11) Subtract:

- a) $7 - 5/6 =$
- b) $5 \frac{1}{10} - 3 \frac{4}{5} =$
- c) $2 \frac{1}{2} - 2 \frac{1}{4} =$
- d) $6 \frac{9}{10} - 4 =$

12) Multiply:

- a) $3/4 \times 4/5 \times 5/6 \times 6/7 =$
- b) $6/6 \times 0/5 \times 3/3 \times 4/4 =$
- c) $1/2 \times 1 \frac{1}{2} \times 2 \frac{1}{2} =$
- d) $25 \times \frac{2}{5} =$

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13) Divide:

- a) $5 \div \frac{1}{6} =$
- b) $\frac{1}{6} \div \frac{1}{2} =$
- c) $3 \frac{2}{9} \div \frac{1}{9} =$
- d) $7 \frac{1}{2} \div 2 \frac{1}{2} =$

14) How much greater is $1/5$ of 50 than $1/3$ of 30?

15) How much less is $1 \frac{1}{2}$ times 2 than $3/4$ of 8?

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

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

18) On the number line, what value is $1/5$ of the distance from 2 to 17?

19) Find the average (mean) of :

$6 \frac{4}{5}$, $8 \frac{3}{5}$, $4 \frac{1}{5}$, $2 \frac{2}{5}$

20) Optional local question