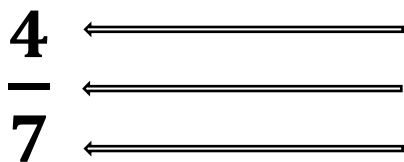


# FRACTION CITY (FA)

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:

$1/3 =$     /    ,    /    ,    /

$2/5 =$     /    ,    /    ,    /

$7/4 =$     /    ,    /    ,    /

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

$2/6$              $5/8$              $9/12$

$6/9$              $3/10$              $8/6$

$1/4$              $8/16$              $7/21$

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

- a)  $A/3 = 99/27$
- b)  $11/B = 77/14$
- c)  $9/10 = C/60$
- d)  $18/24 = 6/D$

5) Evaluate the problems below:

- a) What is  $1/4$  of 16?
- b) 7 is  $1/3$  of what?
- c) What fractional part of 40 is 4?
- d) Find  $2/3$  of 21.
- e) 5 is  $1/7$  of what value?
- f) 14 is what fractional part of 21?

6) Fill in the chart below

fraction	decimal	percent
$4/5$		
	0.5	
		10%
$1/8$		
	0.25	
		$33\frac{1}{3}\%$

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?



9) Arrange in increasing order:

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

10) Add:

a)  $5 + 3\frac{3}{4} + \frac{5}{4} =$

b)  $1/3 + 1/3 + 2/3 =$

c)  $3\frac{2}{3} + 4\frac{5}{8} + 6\frac{1}{2} =$

d)  $3/5 + 3/10 + 2/5 + 7/10 =$

11) Subtract:

a)  $8 - 2\frac{1}{5} =$

b)  $7\frac{3}{10} - \frac{1}{5} =$

c)  $2\frac{1}{2} - 1\frac{11}{12} =$

d)  $5\frac{4}{7} - 3 =$

12) Multiply:

a)  $4/5 \times 5/6 \times 6/7 \times 7/8 =$

b)  $6\frac{2}{3} \times 6/25 \times 7/7 =$

c)  $3\frac{1}{2} \times 2/7 =$

d)  $35 \times 0/5 =$

Name \_\_\_\_\_

13) Divide:

a)  $4 \div \frac{1}{3} =$

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

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

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

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

15) How much less is  $1\frac{1}{2}$  times 6 than  $7/8$  of 16?

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

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

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

19) Find the average (mean) of :

$2\frac{1}{4}$ ,  $4\frac{3}{20}$ ,  $3\frac{1}{5}$

20) Optional local question

