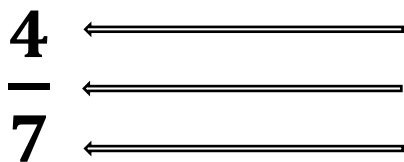


FRACTION CITY (FA)

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: **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 $1\frac{1}{3}$

$1/4$ $8/16 = 1/2$ $7/21 = 1/3$

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%
$1/3$	0.3	$33\frac{1}{3}\%$

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 increasing order:

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

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

10) Add:

a) $5 + 3\frac{3}{4} + \frac{5}{4} = 10$

b) $1/3 + 1/3 + 2/3 = 1\frac{1}{3}$

c) $3\frac{2}{3} + 4\frac{5}{8} + 6\frac{1}{2} = 14\frac{19}{24}$

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

11) Subtract:

a) $8 - 2\frac{1}{5} = 5\frac{4}{5}$

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

c) $2\frac{1}{2} - 1\frac{11}{12} = \frac{7}{12}$

d) $5\frac{4}{7} - 3 = 2\frac{4}{7}$

12) Multiply:

a) $4/5 \times 5/6 \times 6/7 \times 7/8 = \frac{1}{2}$

b) $6\frac{2}{3} \times 6/25 \times 7/7 = 1\frac{3}{5}$

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

d) $35 \times 0/5 = 0$

KEY

Name _____

13) Divide:

a) $4 \div \frac{1}{3} = 12$

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

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

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

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

1

15) How much less is $1\frac{1}{2}$ 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 :

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

$3\frac{1}{5}$

20) Optional local question