

FRACTION CITY (FD)

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

$\frac{1}{6}$

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

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

$1/2 = 2/4, 3/6, 4/8$

$4/5 = 8/10, 12/15, 16/20$

$7/3 = 14/6, 21/9, 21/12$

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

$\frac{4}{9}$ $8/10 = 4/5$ $\frac{1}{16}$

$6/9 = 2/3$ $3/15 = 1/5$ $6/3 = 2$

$5/5 = 1$ $14/16 = 7/8$ $\frac{11}{12}$

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

a) $A/15 = 4/12$ $A = 5$
 b) $13/B = 39/9$ $B = 3$
 c) $5/2 = C/3$ $C = 7 \frac{1}{2}$
 d) $10/12 = 25/D$ $D = 30$

5) Evaluate the problems below:

a) What is $1/3$ of 24? 8
 b) 7 is $1/5$ of what? 35
 c) What fractional part of 12 is 9? $3/4$
 d) Find $2/3$ of 6. 4
 e) 4 is $1/8$ of what value? 32
 f) 9 is what fractional part of 27? $1/3$

6) Fill in the chart below

fraction	decimal	percent
$5/5$	1.0	100%
$1/5$	0.2	20%
$9/10$	0.9	90%
$1/3$	0.3	$33 \frac{1}{3}\%$
$2/5$	0.4	40%
$3/4$	0.75	75%

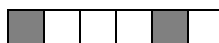
7) Compare using $<$, $>$, $=$

$5/4 _ > _ 5/6$
 $1/10 _ = _ 2/20$
 $1/4 _ = _ 10/40$
 $1/8 _ > _ 1/9$
 $6/3 _ > _ 3/6$

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



$4/4$ or 1



$2/6$ or $1/3$

9) Arrange in increasing order:

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

10) Add:

a) $5 + 2 \frac{1}{3} + \frac{2}{3} = 8$
 b) $1/3 + 1/6 + 1/9 = \frac{11}{18}$
 c) $2 \frac{3}{4} + 3 \frac{5}{8} + 1 \frac{1}{2} = 7 \frac{7}{8}$
 d) $1/2 + 2/2 + 3/2 + 4/2 = 5$

11) Subtract:

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

12) Multiply:

a) $8/8 \times 4/5 \times 5/6 \times 6/7 = \frac{4}{7}$
 b) $5/6 \times 4/5 \times 7/3 \times 0/4 = 0$
 c) $2 \frac{1}{2} \times 2 \frac{1}{2} = 6 \frac{1}{4}$
 d) $15 \times \frac{3}{5} = 9$

KEY

Name

13) Divide:

a) $9 \div \frac{1}{2} = 18$
 b) $\frac{1}{6} \div \frac{1}{3} = \frac{1}{2}$
 c) $3 \frac{2}{5} \div \frac{1}{5} = 17$
 d) $10 \div 2 \frac{1}{2} = 4$

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

3

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

6

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

$4/11$

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

$2/6$ or $1/3$

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

7

19) Find the average (mean) of :

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

$3 \frac{3}{8}$

20) Optional local question