# FRACTION CITY (FC)

_____KEY_____

Name

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

$\frac{2}{9}$

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

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

**1/5 = 2/10 , 3/15 , 4/20**

**3/4 = 6/8 , 9/12 , 12/16**

**7/2 = 14/4 , 21/6 , 28/8**

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

**3/6 = ½ 8/8 = 1 (5/12)**

**(7/9) 3/9 = 1/3 (8/3) or 2 2/3**

**(1/5) (9/16) (7/12)**

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

**a)** A/4 = 52/13 **A = 16**
**b)** 15/B = 30/22 **B = 11**
**c)** 9/10 = C/70 **C = 63**
**d)** 18/9 = 8/D **D = 4**

**5) Evaluate the problems below:**

**a)** What is 1/2 of 26? **13**

**b)** 7 is 1/4 of what? **28**

**c)** What fractional part of 12 is 4? **1/3**

**d)** Find 2/3 of 15. **10**

**e)** 3 is 1/9 of what value? **27**

**f)** 3 is what fractional part of 21? **1/7**

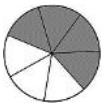
**6) Fill in the chart below**

| fraction | decimal | percent |
|---|---|---|
| 2/5 | **0.4** | **40%** |
| **3/5** | 0.6 | **60%** |
| **3/10** | **0.3** | 30% |
| 3/4 | **0.75** | **75%** |
| **1/4** | 0.25 | **25%** |
| **3/20** | **0.15** | 15% |

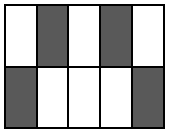
**7) Compare using <, >, =**

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?**



**4/7**



**4/10 or 2/5**

**9) Arrange in <u>decreasing</u> order:**

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

**10) Add:**

**a)** 7 + 2 1/5 + 4/5 = **10**
**b)** 2/3 + 1/6 + 4/9 = **1 5/18**
**c)** 3 1/4 + 3 7/8 + 3 1/2 = **10 5/8**
**d)** 1/5 + 1/4 + 1/2 + 1/10 = **1 1/20**

**11) Subtract:**

**a)** 7 – 5/6 = **6 1/6**
**b)** 5 1/10 – 3 4/5 = **1 3/10**
**c)** 2 1/2 – 2 1/4 = **1/4**
**d)** 6 9/10 – 4 = **2 9/10**

**12) Multiply:**

**a)** 3/4 X 4/5 X 5/6 X 6/7 = **3/7**
**b)** 6/6 X 0/5 X 3/3 X 4/4 = **0**
**c)** 1/2 X 1 1/2 X 2 1/2 = **1 7/8**
**d)** 25 X 2/5 = **10**

**13) Divide:**

**a)** 5 ÷ 1/6 = **30**
**b)** 1/6 ÷ 1/2 = **1/3**
**c)** 3 2/9 ÷ 1/9 = **29**
**d)** 7 1/2 ÷ 2 1/2 = **3**

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

**0**

**15) How much less is 1 ½ times 2 than 3/4 of 8?**

**3**

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

**5/11**

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

**3/6 or 1/2**

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

**5**

**19) Find the average (mean) of :**

**6 4/5 , 8 3/5 , 4 1/5, 2 2/5**

**5 ½**

**20) Optional local question**