Jakarta International School

6th Grade

Practice test –formative-2
Number patterns and fractions
Blue

Name: _____

Date: _____

Score: $\dfrac{\quad}{22}$

Vocabulary.

1) Fill in the blanks. (1pt each)

a. A _____ decimal can be written as a fraction with a denominator of 10, 100, 1000 and so on.

b. The product of a fraction and it's _____ is 1.

Improper Fractions and Mixed numbers

2) Rewrite the decimal as a mixed number and an improper fraction. (2 pts)

a. 2.72

Comparing Fractions

3) Order the numbers from least to greatest. (1pt)

$$\frac{9}{5}, \ 1\frac{3}{7}, \ 1\frac{3}{5}$$

4) Find the missing fraction in the sequence. (1pt)

$$\frac{4}{9}, \frac{9}{20}, \text{---}, \frac{45}{100}$$

Decimals and Fractions

5) Express each fraction as a decimal. (2pts each)

a. $\dfrac{2}{15}$

b. $\dfrac{3}{11}$

6) Re-write the list of numbers in order from least to greatest. (2pts)

$$-1.\overline{8} \quad 0.18 \quad \dfrac{21}{18} \quad -1.88 \quad 0.1\overline{8} \quad 1.18 \quad \dfrac{6}{5}$$

Estimation with Fractions

7) After being sick for a week, Tiara spent Saturday catching upon her homework. She worked $2\dfrac{1}{6}$ hrs Spanish project, $1\dfrac{3}{4}$ hrs on a English paper and $2\dfrac{2}{3}$ hrs practicing her saxophone.

Estimate the total amount of time spent on these activities? Show all your working. (2pts)

Operations with fractions and mixed numbers

8) Solve and give your answer in simplest form. (2pts each)

a. $\dfrac{10p^2q^2}{m} \div \dfrac{15pq}{m^3}$

b. $\dfrac{26x}{2p} \times \dfrac{16xyz}{13p}$

9) In a group of 40 students $\dfrac{3}{8}$ of them play tennis, $\dfrac{2}{5}$ of them play badminton, and $\dfrac{3}{20}$ play volleyball. If $\dfrac{3}{5}$ of those who play tennis and $\dfrac{1}{4}$ of those who play badminton now also play volleyball, how many students play volleyball altogether? (2pts)

10) Monica works out that it takes $1\dfrac{5}{8}$ of a can of sprite to fill a tall glass. How many similar glasses can be filled by 39 cans of sprite? (2pts)