**Mathematics 7 - Unit 3 Assignment #1**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section\_\_\_\_\_

Part 1- Multiply Choice

1. Which is the exact decimal representation of $\frac{2}{3}$?

1. 0.6 b) 0.66 c) $0.\overbar{6}$ d) 0.7

2. Which of the following is a terminating decimal?

1. $\frac{1}{3}$ b) 0.$\overbar{7}$ c) 4.5 d) 2.$\overbar{1}$

3. If $\frac{1}{11}$ = 0.$\overbar{09}$ and $\frac{2}{11}$ = 0.$\overbar{18}$, what is the value of $\frac{5}{11}$?

1. 0.$\overbar{27}$ b) 0.$\overbar{36}$ c) 0.$\overbar{45}$ d) 0.$\overbar{54}$

4. Which of the following would be represented as a repeating decimal?

1. ½ b) $\frac{1}{3}$ c) ¼ d) $\frac{1}{5}$

 5. Which of the following would be between 0.5 and 0.9?

1. $\frac{5}{9}$ b) $\frac{1}{3}$ c) $\frac{2}{5}$ d) $\frac{19}{20}$

6. Which value is in the wrong position on the number line?

 0 $\frac{1}{3}$ ½ 1 1$\frac{3}{5}$ 1 ½ 2

1. $\frac{1}{3}$ b) ½ c) 1$\frac{3}{5}$ d) 1 ½

1. State if each number is a terminating decimal or repeating decimal.

 A) 0.125 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ B) $\frac{3}{10}=\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

 C) $0.\overline{3}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ D) $\frac{201}{999}=\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$

 E) $2.\overline{152}$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ F) $2.18888$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Draw a line that connects each fraction to its corresponding decimal.

|  |  |  |
| --- | --- | --- |
| $$\frac{12}{99}$$ |  | 0.75 |
| $$\frac{12}{100}$$ |  | 0.375 |
| $$\frac{3}{4}$$ |  | 0.12 |
| $$\frac{6}{8}$$ |  | $$0.\overline{12}$$ |

3. Rewrite each fraction as a decimal. Show your workings.

 A) $\frac{6}{25}$ \_\_\_\_\_\_\_ B) $\frac{6}{9}$ \_\_\_\_\_\_\_ C) $\frac{7}{10}$ \_\_\_\_\_\_\_\_ D) $\frac{1}{8}$ \_\_\_\_\_\_\_\_

4 A) Rewrite these fractions as decimals.

|  |  |  |  |
| --- | --- | --- | --- |
| $$\frac{44}{99}$$ | $$\frac{55}{99}$$ | $$\frac{66}{99}$$ | $$\frac{77}{99}$$ |

B) Using the results from part A write the fraction forms of these decimals.

(i) $0.\overline{33}$ (ii) $0.\overline{88}$

5. Use the number line indicated to order the set of numbers and place them on the number line in their correct positions.

|  |  |  |  |
| --- | --- | --- | --- |
| $$\frac{15}{12}$$ | $$\frac{2}{9}$$ | 0.5 | $$1.8$$ |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



0

1

2

3

0

1

2

3

6. Write the correct symbol <, >, or =, in the space.

A) $\frac{15}{8}$ \_\_\_\_\_ 1.74 B) $\frac{2}{12}$ \_\_\_\_\_ 0.213 C) 0.18 \_\_\_\_\_ $\frac{1}{8}$ D) 1.25 \_\_\_\_\_ $\frac{14}{9} $

7. Rearrange each set of fractions from least to greatest.

A) $\frac{2}{3} \frac{5}{4} \frac{3}{12}$ B) $\frac{7}{14} \frac{8}{7} \frac{9}{21}$ C) $\frac{2}{5} \frac{2}{9} \frac{2}{3}$

8. Find a number that is between each pair of numbers that is given.

A) $\frac{12}{7} and \frac{13}{7}$ B) $2\frac{2}{4} and 2\frac{3}{4} $ C) $3.4 and 3.5$

9. Rewrite each group of numbers in order from least to greatest

 a) 1, 1.73, 2, 1.43, 1.03 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. ¼,  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. Place the following on the number line provided.

 , 2



 0 1 2 3

11. Write the following as a fraction in simplest form. Show your workings.

 $0.5 0.25 0.600 0.525 0.9 0.45$

12. Find a number between

1. 1.3 and 1.4 b) 1/2 and 1/3 c) $\frac{12}{7} and \frac{13}{7}$ d) $2\frac{2}{4} and 2\frac{3}{4}$

13. Your teacher asks you to place  in the correct position on the number line below. Explain where you would place it and why.



Outcomes

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| --- | --- | --- |
| Outcome | Questions | Grade |
| N04 – Relationship between positive terminating decimals and fractions and between repeating decimals and positive fractions | Multiple Choice # 1, 2, 3, 4 Long Answer # 1, 2,3,4,11  | Conversion | Achievement Level |
| N07- compare, order and position positive fractions, decimals and whole numbers using benchmarks, place value and equivalent fractions and decimals | Multiple choice # 5,6Long Answer # 5,6,7,8,9,10,12,13 | Conversion | Achievement Level |