FUNDAMENTALS WEEK 1

Fractions

MONDAY

Please state three different fractions that are equivalent to

$$\frac{3}{5}$$

Which fraction is greater?

$$\frac{2}{7} \text{ or } \frac{5}{14}$$

Order the following fractions from least to greatest:

$$\frac{5}{5} \quad \frac{7}{10} \quad \frac{1}{2}$$

TUESDAY

Add the following fractions:

$$\frac{3}{4} + \frac{1}{4}$$

Add the following fractions:

$$\frac{3}{10} + \frac{2}{3}$$

Convert the following mixed number into an improper fraction

$$3\frac{1}{5}$$

WEDNESDAY

Subtract the following fractions:

$$\frac{7}{4} - \frac{3}{4}$$

Subtract the following fractions:

$$\frac{1}{2} - \frac{1}{6}$$

Convert the following improper fraction into a mixed number

$$\frac{14}{3}$$

THURSDAY

Multiply the following fractions:

$$\frac{1}{4} \times \frac{3}{4}$$

Multiply the following fractions:

$$\frac{2}{15} \times \frac{5}{6}$$

What is the reciprocal of the following fraction?

$$\frac{12}{25}$$

FRIDAY

Divide the following fractions:

$$\frac{1}{3} \div \frac{3}{4}$$

Divide the following fraction and a whole number:

$$3 \div \frac{1}{6}$$

Divide the following mixed numbers:

$$2\frac{1}{3} \div 2\frac{2}{5}$$

FUNDAMENTALS WEEK 2

Decimals and Percent

MONDAY

Which decimal is greater?

5.32 or 5.465

Which decimal is greater?

0.001 or 0.101

Convert the following fraction into a decimal:

$\frac{5}{100}$

TUESDAY

Add the following decimals:

3.05 + 4.10

Add the following decimals:

0.304 + 0.023

Subtract the following decimals:

120.34 - 76.04

WEDNESDAY

Subtract the following decimals:

245 - 45.03

Multiply the following decimals:

24.44 x 5

Multiply the following decimals:

0.034 x 0.406

THURSDAY

Divide the following decimals:

45 ÷ 0.05

Divide the following decimals:

600.05 ÷ 2.01

Convert into a decimal:

$\frac{12}{25}$

FRIDAY

Convert the following decimal into percent:

0.34

Convert the following percent into a decimal:

99%

Which one is greater, 11 % or 0.011?

Which one is greater, 55 % or 5.5?

FUNDAMENTALS WEEK 3

Integers and Order of Operations

MONDAY

Which integer is greater?

8 or -8

Which integers is greater?

-24 or 5

Place the following integers in the **descending** order:

5, 0, -45, -3, 50, 3

TUESDAY

Add the following integers:

23 + (-10)

Add the following integers:

-13 + 54

Subtract the following integers:

-40 - (-32)

WEDNESDAY

Subtract the following integers:

-245 - 45

Multiply the following integers:

-33 x 5

Multiply the following integers:

0 x (-156)

THURSDAY

Divide the following integers:

45 ÷ (-5)

Divide the following integers:

(-600) ÷ (-2)

Evaluate (follow the order of operations):

(22 - 34) x (-2)

FRIDAY

Evaluate (follow the order of operations):

45 ÷ (-15) x 3

Evaluate (follow the order of operations):

- 5 - 3 + 7 -20 x 4

Evaluate (follow the order of operations):

$(- 5 - 3)^2 + 7 - 20 \times 4$

FUNDAMENTALS WEEK 4

Exponents

MONDAY

Which expression is greater?

8^3 or 5^4

Evaluate the following:

$(-3)^4$

Evaluate the following:

$(2)^3 + (-4)^3$

TUESDAY

Evaluate:

$2^3 \times 2^2$

Evaluate:

$2^4 \div 2^2$

Evaluate:

$(-2^2)^5$

WEDNESDAY

Evaluate:

$2^2 \times 2^4 + 3^2$

Evaluate:

$(5)^{-3}$

Evaluate:

$3^{-2} \times 3^{-4}$

THURSDAY

Simplify:

$(m^4n^3)^2$

Simplify:

$(234xy)^0$

Simplify:

$m^2n^4 \times m^4n^2$

FRIDAY

Simplify:

$(2s^2t^3)^3$

Simplify:

$$\frac{12\,m^6n^4}{4\,m^3n^4}$$

Simplify:

$$\frac{-24(xy)^2}{-4(xy)^{-2}}$$