

RULES IN OPERATIONS WITH SIGNED NUMBERS

ADDING/SUBTRACTING

AND

MULTIPLYING/DIVIDING

OF INTEGERS

Negative and Positive Rule

In addition and subtraction

Example

$$1. 5 - 9 = -4$$

$$2. -5 - 9 = -14$$

$$3. 5 - (-9) = 14$$

$$4. 5 + (-9) = -4$$

Your Turn!

$$5. 3 - 6 = -3$$

$$6. -4 - 7 = -11$$

$$7. 6 - (-2) = 8$$

$$8. 9 + (-12) = -3$$

Negative and Positive Rule

In multiplication and division

Example

$$1. -5 (4) = -20$$

$$2. -5 (-4) = 20$$

$$3. -5 (4) = -20$$

$$4. 5 (4) = 20$$

Your Turn!

$$1. -25 \div 5 = -5$$

$$2. -25 \div (-5) = 5$$

$$3. 25 \div (-5) = -5$$

$$4. 25 \div (5) = 5$$

Fractions

Multiplication and Division of Fractions

$$1. \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$

$$2. \frac{2}{4} \times \frac{2}{5} = \frac{4}{20} = \frac{2}{10} = \frac{1}{5}$$

Division

$$1. \quad \frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4}$$

$$2. \quad \frac{2}{4} \div \frac{2}{5} = \frac{2}{4} \times \frac{5}{2} = \frac{10}{8}$$

Classwork

$$1. 21 - 13 =$$

$$2. 12 - (-3) =$$

$$3. 5 (-3) =$$

$$4. -15 \div (-3) =$$

$$5. -12 \times (4) =$$

$$6. -1 - (-3) =$$

$$7. -8 + (-3) =$$

$$8. -20 (-3) =$$

$$9. -58 \div (-2) =$$

$$5. -21 \times (-9) =$$

$$1. \frac{4}{5} \times \frac{1}{2}$$

$$2. \frac{6}{4} \div \frac{1}{3}$$

$$3. \frac{7}{3} \times \frac{5}{6}$$

$$4. \frac{5}{3} \div \frac{7}{2}$$