Name _____ Section:_____ Class_____

Reinforcement Of Rational Numbers

Qno1: Select the correct answer (only one) from the given options.

(i) The sum of a number and its additive inverse is always;

(a) additive identity (b) multiplicative identity (c) Both (a) & (b) (d) number itself

(ii) There are _____ rational numbers between 2 and 3.

(a) finite (b) infinite (c) no (d) doesn't exist

(iii) Alina has arranged the rational numbers in order, identify the ascending order;

(a) $-\frac{3}{4} < -2 < 0$ (b) $0 < -\frac{3}{4} < 1$ (c) $-\frac{5}{4} < 0 < 1$ (d) $\frac{1}{2} > 3 > -5$

(iv) Which of the following is **not a rational number** ?

(a) $\sqrt{3}$ (b) $\sqrt{15}$ (c) Both 'a' & 'b' (d) $\sqrt{81}$

(v) Pick the pair of fractions that are equivalent rational numbers

(a) $-\frac{4}{13}$, $\frac{20}{-65}$ (b) $-\frac{7}{15}$, $\frac{35}{85}$ (c) $-\frac{16}{20}$, $\frac{-4}{-15}$ (d) $\frac{5}{9}$, $\frac{15}{3}$

Qno2: Select the correct word from the following word bank to make the given statement as "TRUE".

perfect square , quotient, product , -1 , square root , non-terminating repeating , terminating repeating

1: The numbers which can be expressed as _____ of two integers where divisor is non-zero integer are stated as rational numbers.

2: Square root of _____ is always rational number.

3: Quotient of additive inverse of (1) and multiplicative identity is _____.

4: $3.\overline{23}$ is _____ decimal.

5: Multiplicative inverse of $(\frac{-1}{3})$ $(\frac{-1}{3})$ is _____ of 81.

Qno3: Match the Column A with Column B.

Column A	Column B
(i) Multiplicative inverse of $2\frac{1}{2}$ is same as	Denominator has prime factor
(ii) 5 times (-3) added with (+15)	Number itself
(iii) $\frac{4}{26}$ is non-terminating decimal because	Additive inverse of zero
(iv) Sum of zero with rational number	$(3/2)^2$
(v) If $\frac{a}{3} = \frac{3}{4}$, value of a is;	0.4

Qno4: Identify which of the following statement is either TRUE or FALSE.

(a) Every rational number is an integer. T / F

(b) Rational numbers -5/3 is greater than 1. T / F

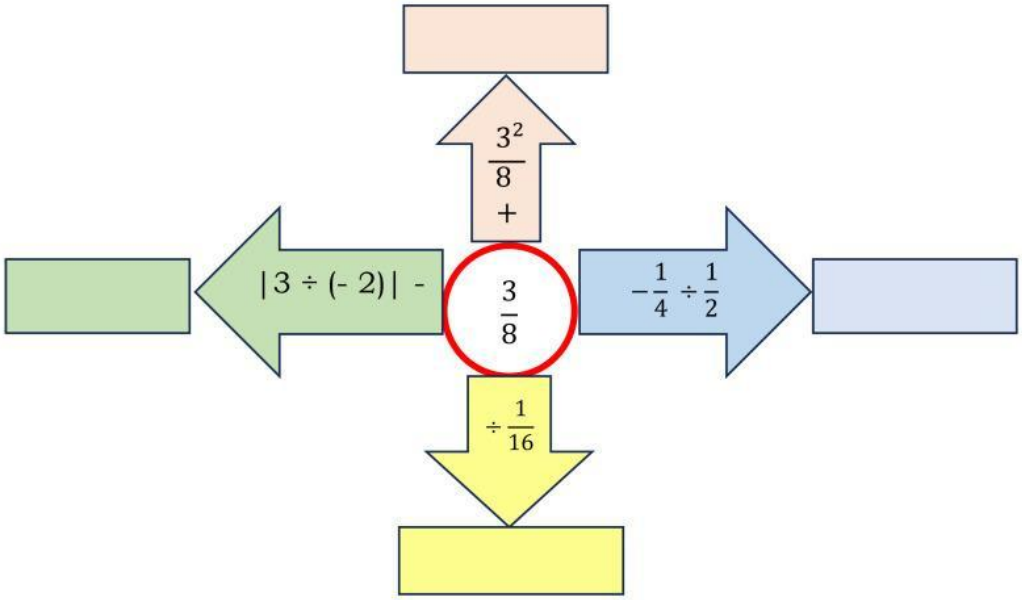
(c) If 'a' and 'b' are any integers then their product is always an integer. T / F

(d) - 4 / 5 is terminating decimal. T / F

(e) $2 \times \{-\frac{3}{4} - \frac{1}{4}\} = (2 \times -\frac{3}{4}) - (2 \times \frac{1}{4})$ is distributive law of "×" over "-" T / F

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Qno5: Write the correct answer in the rectangular box by applying BODMAS rule.



Qno6: Identify the correct property of Rational numbers according to the given statement.

(i) $-\frac{3}{7} + \frac{4}{7} = \frac{4}{7} + \left(-\frac{3}{7}\right)$

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(ii) $9\frac{1}{2} + 0 = 0 + 9\frac{1}{2} = 9\frac{1}{2}$

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(iii) $-2\frac{1}{3} \times \left(-\frac{1}{4} \times \frac{1}{3}\right) = \left(-2\frac{1}{3} \times -\frac{1}{4}\right) \times \frac{1}{3}$

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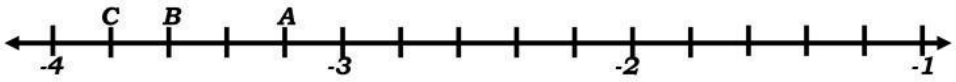
(iv) $\frac{9}{17} \times (-1) = (-1) \times \frac{9}{17} = -\frac{9}{17}$

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(v) $1\frac{1}{3} \times \left(\frac{1}{3} + \frac{5}{3}\right) = \left(1\frac{1}{3} \times \frac{1}{3}\right) + \left(1\frac{1}{3} \times \frac{5}{3}\right)$

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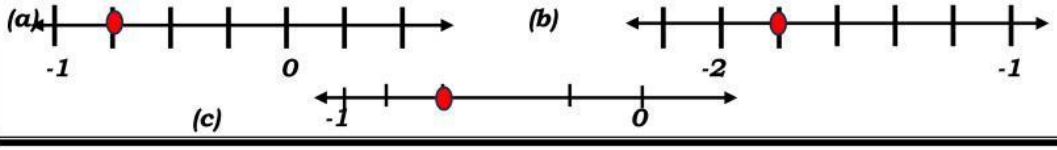
Qno7: Ali represented the points on number line. The points represented by alphabets as shown below. Identify the alphabets A, B and C from the number line also fill the blanks accordingly.



i) Number of intervals made by Ali _____. ii) Points A, B & C are in between _____.

iii) A =_____. (iv) B = _____. (v) C = _____.

Qno8: Identify which number line is representing $-\frac{3}{4}$ correctly.



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