Multiple Choice Questions (1 Mark)

Q.1 The value of x in $\dfrac{x}{-30} = \dfrac{3}{5}$

A	18	B	6	C	−18	D	−6

Q.2 A rational number which is not lying between $\dfrac{-1}{5}$ and $\dfrac{1}{6}$ is:

A	$\dfrac{-4}{30}$	B	$\dfrac{1}{30}$	C	$\dfrac{-7}{30}$	D	$\dfrac{3}{30}$

Q.3 The standard form of $\dfrac{-225}{255}$ is _____

A	$\dfrac{-5}{25}$	B	$\dfrac{-45}{51}$	C	$\dfrac{45}{51}$	D	$\dfrac{-15}{25}$

Q.4 The product of $\dfrac{-7}{9} \times \dfrac{3}{8} \times \dfrac{-4}{7}$ is:

A	$\dfrac{1}{12}$	B	$\dfrac{1}{6}$	C	$\dfrac{-1}{7}$	D	$\dfrac{14}{15}$

Q.5 For rational numbers, multiplicative identity is:

A	−1	B	0	C	1	D	2

Q.6 Negative of the number −7 is:

A	0	B	1	C	−7	D	7

Q.7 Reciprocal of $\dfrac{4}{-5}$ is:

A	$\dfrac{-4}{5}$	B	$\dfrac{5}{4}$	C	$\dfrac{4}{5}$	D	$\dfrac{-5}{4}$

Q.8 Multiplying $\dfrac{7}{5}$ by the reciprocal of $\dfrac{-7}{13}$, we get

A	$\dfrac{5}{13}$	B	$\dfrac{-5}{13}$	C	$\dfrac{-13}{5}$	D	$\dfrac{13}{5}$

Q.9 Which of the following numbers has no multiplicative inverse?

A	0	B	−1	C	−2	D	−3

Q.10 Two rational numbers between −1 and 0 are:

	A	$\frac{1}{4}$ and $\frac{1}{2}$	B	$\frac{-1}{2}$ and $\frac{1}{4}$	C	$\frac{1}{3}$ and $\frac{2}{3}$	D	$\frac{-2}{3}$ and $\frac{-1}{3}$

Source-based question:

The table shows the portion of some common materials that are recycled.

Material	Paper	Aluminum cans	Glass	Scrap
Recycled	$\frac{5}{11}$	$\frac{5}{8}$	$\frac{2}{5}$	$\frac{3}{4}$

Based on the above information answer the following questions.

Q.11	Which material is recycled more?							
	A	Scrap	B	Aluminum cans	C	Glass	D	Paper

Q.12	What is the total quantity of all the materials that are recycled.							
	A	$\frac{15}{28}$	B	$\frac{981}{440}$	C	$\frac{10}{11}$	D	$\frac{981}{110}$

Q.13	Find the product of additive inverse and multiplicative inverse of $\frac{5}{11}$.							
	A	1	B	0	C	-1	D	$\frac{25}{121}$

Q.14	Name the property used in the given statement: $\frac{5}{8} \times \frac{2}{5} = \frac{2}{5} \times \frac{5}{8}$							
	A	Associative Property	B	Commutative Property	C	Closure Property	D	Distributive Property

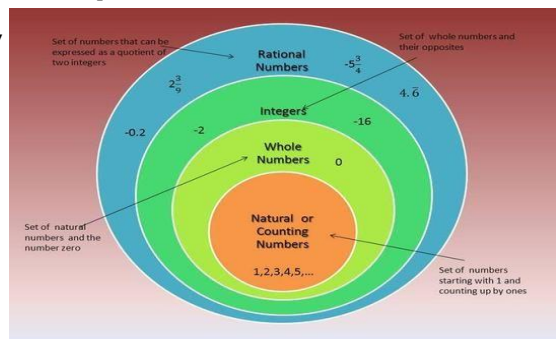| Q.15	How many rational numbers are there between $\frac{5}{11}$ and $\frac{5}{8}$?							
	A	3	B	2	C	0	D	infinite

Q.16. <u>Case study</u>: As per the definition of a rational number, $\frac{p}{q}$ is a rational number if

p and q are integers and $q \neq 0$. For the rational numbers, answer the following:

i) What will be $\frac{p}{q}$ if q= 1.

ii) $\frac{p}{q} = \frac{3}{8}$, and $\frac{p}{q} + 1$ is another rational number, then how

many rational numbers exist between them.

iii) Find the value by using distributive property: $\frac{5}{6} \times \frac{-3}{10} + \frac{-3}{10} \times \frac{2}{3}$

ANSWERS

Answers								
	1	C	**2**	C	**3**	B	**4**	B
	5	C	**6**	D	**7**	D	**8**	C
	9	A	**10**	D	**11**	A	**12**	B
	13	C	**14**	B	**15**	D	**16**	i)Integer ii)infinite iii) $\frac{-9}{20}$

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