Classroom Based Assessment - 1 (2022-23)

UDISE Code: _____	Class-Subject: 8-Maths
Child ID: _____	No. of Questions: 19
Child Name: _____	Duration: 60 minutes

Section A: Multiple Choice Questions - Each question has 4 options out of which ONLY ONE option is correct. (15 x 1M = 15M)

1 Which of these are rational numbers?

37, $\frac{36.29}{2}$,25.49, $\frac{-37}{69}$

A only $\frac{-37}{69}$

B only $\frac{-37}{69}$ and $\frac{36.29}{2}$

C only 37, $\frac{-37}{69}$ and $\frac{36.29}{2}$

D all of them

2 *p* and *q* are any two rational numbers and @ is an operation such that -

p @ *q* is NOT EQUAL to *q* @ p.

Which of these could be the operation @?

A either addition or multiplication

B either multiplication or division

C either subtraction or division

D (@ cannot be addition, subtraction, multiplication or division as *p* @ *q* is always equal to *q* @ p.)

3 Which of the following numbers lies between the two numbers marked on the number line below?

A $\frac{-8}{7}$

B $\frac{-7}{8}$

C - 7.8

D - 8.7

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4 Which number when multiplied with $2\frac{1}{5}$ will result in 1?

A $\frac{5}{1}$

B $\frac{5}{2}$

C $\frac{5}{11}$

D $\frac{5}{21}$

5 Which of the following statements is TRUE?

A $3 \div \frac{1}{3} = \frac{1}{3} \div 3$

B $(3 \div \frac{1}{3}) \div 3 = 3 \div (\frac{1}{3} \div 3)$

C $3 \div (3 + 3) = (3 \div 3) + (3 \div 3)$

D $(3 - \frac{1}{3}) \div 3 = (3 \div 3) - (\frac{1}{3} \div 3)$

6 A rational number is one which can be written in the form $\frac{x}{y}$ where x and y are integers and y is not zero. For example -2.5 is rational number as it can be written as $-\frac{5}{2}$.

Which of these is NOT a rational number?

A 2.353535....

B $-\frac{1}{4}$

C $\frac{3}{0}$

D 0

7 Which of the following rational numbers has a recurring decimal expansion?

A $\frac{6}{15}$

B $\frac{12}{18}$

C $\frac{23}{25}$

D $\frac{123}{400}$

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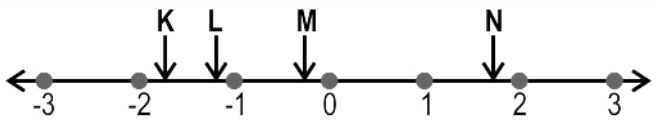
8 Which of the following points represents $-1\frac{2}{3}$ on a number line?



A K

B L

C M

D N

9 In which of the following cases will the sum of p and q be greater than the product of p and q?

A when p and q are both negative numbers

B when p and q both lie between 0 and 1

C when p and q both lie between 1 and 10

D it is not possible for any value of p and q.

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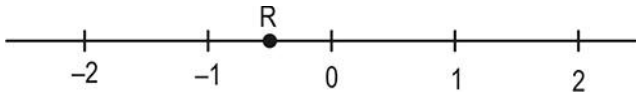
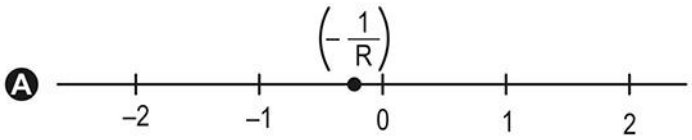
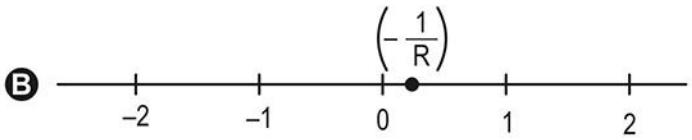
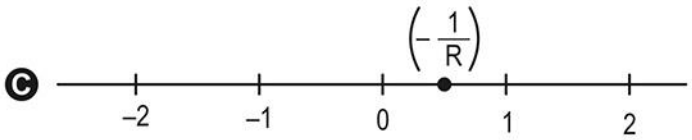
10 A rational number R is marked on the number line shown below.

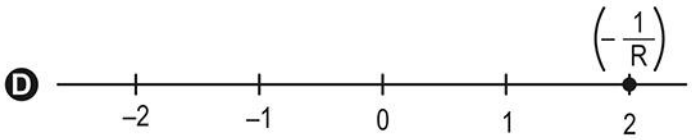


Which of the following number lines shows the approximate location of $(-\frac{1}{R})$?

A 

B 

C 

D 

A A

B B

C C

D D

11 Ritu , Tarun and Imran did the following operations on $-\frac{12}{55}$ and $\frac{15}{31}$.

Ritu : $-\frac{12}{55} + \frac{15}{31}$

Tarun : $-\frac{12}{55} \times \frac{15}{31}$

Imran : $-\frac{12}{55} \div \frac{15}{31}$

Who will get a rational number?

A only Ritu

B only Ritu and Tarun

C all- Ritu, Tarun and Imran

D none of Ritu, Tarun and Imran

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12 How many rational numbers are there between $\frac{62}{79}$ and $\frac{64}{79}$?

A 1

B 79

C 100

D infinitely many

13 *p* and *q* are two rational numbers such that their product is -2.

If *p* is $-\frac{4}{7}$, what is $\frac{p}{q}$?

A $\frac{8}{7}$

B $\frac{7}{2}$

C $-\frac{2}{7}$

D $-\frac{8}{49}$

14 How many pieces of rope, each measuring $3\frac{3}{4}$ metres, can be cut from a 30 metres long rope?

A 6

B 8

C 10

D 12

15 Which one of the following is the rational number lying between $\frac{6}{7}$ and $\frac{7}{8}$?

A $\frac{94}{112}$

B $\frac{95}{112}$

C $\frac{97}{112}$

D $\frac{99}{112}$

Section B: Answer the following questions in your answer sheets. (3 x 1M = 3M)

16 The following relation is used to illustrate the property of multiplicative identity. A and B are numbers.

$\frac{1}{4} \times A = B$

What is the value of A and B?

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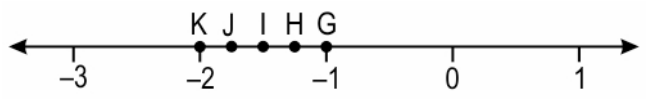
17 Observe the number line below. It is given that GH = HI = IJ = JK.



What is the rational number represented by point J?

18 Which of the two numbers is greater?

$\frac{-4}{-5}$ or $\frac{-5}{8}$

Section C: Answer the following question in your answer sheet. (1 x 2M = 2M)

19 Use suitable properties of operations and simplify:

$\frac{2}{9} \times (-\frac{5}{12}) - \frac{5}{12} \times \frac{4}{9}$

Show your steps.

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	Class: 8 Subject: Mathematics
Question Number	Answer Key
1	D
2	C
3	C
4	C
5	D
6	C
7	B
8	A
9	B
10	D
11	C
12	D
13	D
14	B
15	C
16	Award 1 mark if the student - Writes the value of A as 1 and Writes the value of B as 1/4 or A is 4 and B is 1 Award 0.5 marks if answer to either A or B is correct Any other answer 0
17	Award 1 mark if the student writes the rational number represented by point J as −7/4 or -1 (3/4) Any other answer 0
18	Award 1 mark if student answers (-4/-5) Any other answer 0
19	Award 2 marks: Step 1 (1 mark): Uses the distributive property and rewrites the above expression as follows: - (5/12) {(2/9) + (4/9)}, Step 2 (1/2 mark): Simplifies the above expression as (5/12)} x {(6/9)} , Step 3 (1/2 mark): Simplifies the expression (- {frac (5/18)}). Award 1.5 marks if either skips step 2 or 3, Award 1 mark if (i)either skips step 1 or both steps 2 and 3 OR (ii) Skips step 1 and either steps 2 or 3 Any other answer 0

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