

SCHOOL NAME:

DISTRICT:

TALUKU:

FORMATIVE ASSESSMENT-1

Subject: Mathematics

Class: 8th standard

MARKS:20

DATE: -07-2023

DURATION: 45min

General instructions:

- This test consists of 12 questions including objective and subjective type.
- Read questions and answer all.
- The use and carrying electronic device in the exam hall is prohibited.

I. Fill in the blanks----- 1x3=3

1. Zero has _____ reciprocal.
2. The product of two rational numbers is always _____
3. The reciprocal of a positive rational number is _____

II. Choose the correct answer for the following questions among the four choice--- 1x3=3

4. Which of the following number is exactly divisibly by 3?
a)12454 b) 1414142 c) 1245668 d) 12121212
5. Which of the following is additive inverse of $\frac{2}{5}$?
a) $\frac{5}{2}$ b) $-\frac{2}{5}$ c)-5 d) -2
6. The value of x in the equation $x-2=5$ is _____
a)5 b)7 c)-2 d)-5

III. Answer the following questions----- 2x4=8

7. Using divisibility rule 9, check 152875 is divisible or not.
8. Solve the equation: $7x-5=16$.
9. Two numbers are in the ratio 5:3. If they differ by 18, find the numbers.
10. Solve: $2x - 9 = 6 - x$.

IV. Answer the following questions ----- 3x2=6

11. If $31z5$ is a multiple of 9, where z is a digit. What is the value of z?.
12. Represent the rational numbers $\frac{7}{4}$ and $-\frac{5}{6}$ on number line.

***** All the Best *****

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FORMATIVE ASSESSMENT ACHIEVEMENT TEST-I

Max.Marks:20
Duration: 1 hour

SL NO	CONTENT/THEME	REMEMBERING					UNDERSTANDING					APPLICATION					SKILL			Total questions	TOTAL MARKS		
		MCQ	1M	2M	3M	4M	5M	MCQ	1M	2M	3M	4M	5M	MCQ	1M	2M	3M	4M	5M			2M	3M
1	Playing with numbers	1(1)							2(1)	3(1)												3	6
2	Rational numbers	1(1)						1(3)												3(1)		5	7
3	Linear equations in two variables						1(1)		2(1)						2(2)							4	7
MARKS		2(10%)					11(55%)					4(20%)					3(15%)			12	20		

Note:

1. In chart, inside the brackets are "Number of questions" and outside "marks".

WEIGHTAGE TO COGNITIVE LEVEL(DIMENSION-2)

SL NO	COGNITIVE LEVELS	%	MARKS
1	REMEMBERING	10	2
2	UNDERSTANDING	55	11
3	APPLICATION	20	4
4	SKILL	15	3
	TOTAL	100	20

TYPES OF QUESTIONS(D-3)

SL NO.	TYPES OF QUESTIONS	No.	MARKS
1	MCQ	3	3
2	VSA(1M)	3	3
3	SA(2M)	4	8
4	LA(3M)	2	6
5	LA(4M)	0	0
6	LA(5M)	0	0
7	TOTAL	12	20

LEVEL(DIMENSION-4)

SL N	QUESTIONS LEVEL	%	MARKS
1	EASY	30	6
2	AVERAGE	50	10
3	DIFFICULT	20	4
	TOTAL	100	20