



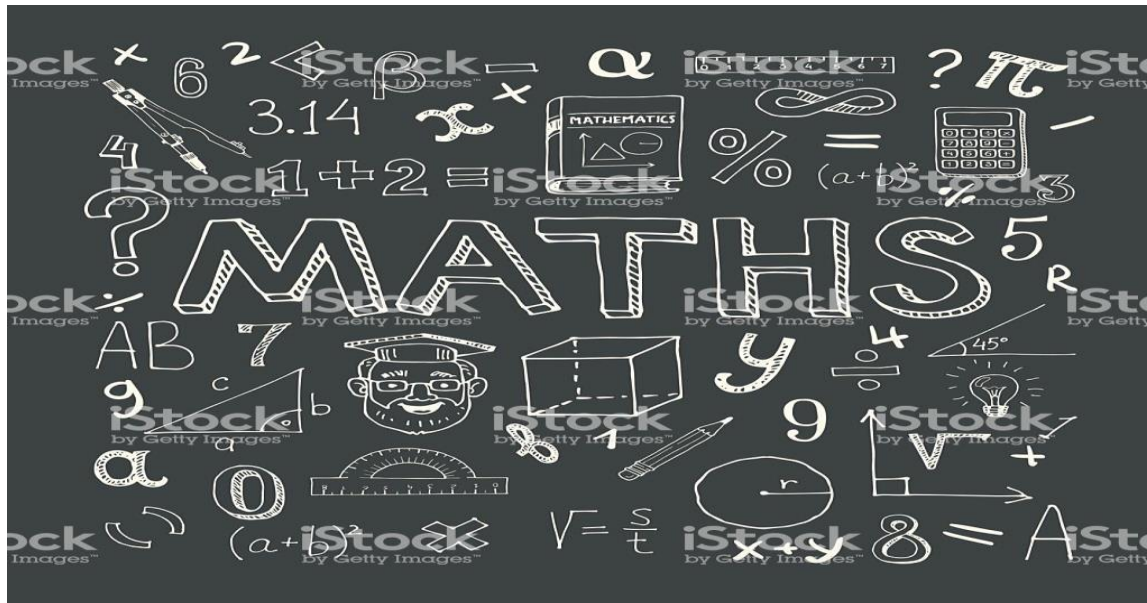
DISRICT PUBLIC SCHOOL & COLLEGE DEPALPUR

Summer vacation task

1ST SEMESTER

Academic Session (2021-2022)

1st July 2021 to 31st July 2021



Subject: Mathematics

Class: Six

STUDENT'S NAME:-----

FATHER'S NAME:-----

CLASS:-----

SECTION:-----

TOTAL MARKS:-----

OBTAINED MARKS-----

CLASS TEACHER NAME AND SIGN-----

SECTION HEAD'S SIGN-----

PRINCIPAL'S SIGN-----

Parent,s sign : _____

Date : 1st July, 2021**Day : Tuesday****Unit : 01 "Set"****Exercise: 1.1****Topic: Sets****Learning objectives:**

Students will be able to solve the sets

What is Set :

1: Fill in blanks by using \notin and \in .

- i. 1 ____ {2, 3}
- ii. B ____ {a, b, c}
- iii. 15 ____ the set of counting numbers
- iv. 0 ____ the set of whole numbers.
- v. B ____ the set of small letters of English alphabet

2: Write the following statement into the symbolic form .i) 0 is an element of set w

ii) *Lahore* is member of set P

iii) Sindh does not belong to set B

iv) 1 is not an element of set E

Parent,s sign : _____

3:List the element of the following sets.

i)The set of three games.

ii)The set of first ten natural numbers.

iii)The set of last four months.

iv)The set of seven days of week.

Learn and write table 11

Date:2ndJuly,2021**Day :Friday****Unit : 01 “Sets”****Exercise:1.2****Topic: Describing set****Learning objectives:**

Students will be able to solve the sets

1:Write set into descriptive form.

Parent,s sign : _____

i) $A = \{1,2,3,4,5,6\}$

ii) $B = \{0,1,2 \dots\dots\dots 99\}$

iii) $E = \{2,4,6 \dots\dots\}$

iv) $W = \{0,1,2,3 \dots\dots\}$

2:Write set into tabular form .

i) The set of 4 domestic animals .

ii) The set of 5 birds .

iii) The set of five famous cities.

iv) The set of five famous cities of Pakistan.

v) The set of 3 bakery item.

3:Find that pairs of sets are equivalent or non equivalent .

i) $A = \{0,1,2,3,4\}$ $B = \{1,2,3,4,5\}$

Parent,s sign : _____

ii) $A = \{-2, -1, 0, 1\}$ $B = \{3, 5, 7, 8\}$

iii) $A = \{1, 2\}$ $B = \{1, 3, 7\}$

4: Which pair of set are equal sets ?

i) $A = \{a, b, c, d, e\}$ $B = \{b, a, e, d, c\}$

ii) $A =$ The set of even numbers less than 9 $B = \{0, 2, 4, 6, 8\}$

Learn and write table 12

Parent,s sign : _____

Work sheet**Topic: Sets**

Match column

Column A

Column A

Set of odd numbers

 $A = \{1,2,3,4\}$ $B = \{a,b,c,d\}$

Set of even numbers

 $\{a\}$

Set of prime numbers

 $\{1,3,5,7,\dots\}$

Set of natural numbers

 $\{1,2,3,4, \dots\}$

Empty Set

 $\{2,3,5,7,11,13,\dots\}$

Singleton set

 $\{2,4,6,8,\dots\}$

Equivalent set

 $\{ \}$

Parent,s sign : _____

Date :3rd July,2021**Day :Saturday****Unit : 01 “Whole numbers”****Exercise:1.3****Topic:Types of set****Learning objectives:**

Students will be able to solve the types sets

1: Which of following set is the empty set?

- i) The set of whole number less 1
- ii) The set of vowels other a and and o
- iii) The set of natural number less than 1

2:Separate the infinite and finite set from the following.

A= The set of natural numbers

B= { Islamic months}

C= { c,f,i,m,o,r,u}

D={ 3,6,9,...}

E={Letter of word “halla gulla”}

Learn and write table 13

Parent,s sign : _____

Date :5th July,2021

Day :Monday

Unit : 02 “Whole numbers”

Exercise:2.1

Topic: Whole numbers

Learning objectives:

Students will be able to solve the whole numbers

1:Write the whole numbers .

i)<15 but > 9

ii) Smaller than 7

iii) ≥ 5

iv) ≤ 11

v) ≥ 48 but ≤ 51

2: Draw the number line to represent the whole numbers.

i)0,3,5,and 9

ii)4,8,12, and 13

Parent,s sign : _____

iii) >4 but <12

Learn and write table 14

Date : 6th July, 2021**Day : Tuesday****Unit : 2 “Whole numbers”****Exercise: 2.2****Topic: Addition & Subtraction****Learning objectives:**

Students will be able to solve addition and subtraction of whole numbers

1: Evaluate:

i) $1096 + 4833$

ii) $5121 - 2674$

Parent,s sign : _____

iii) $650+809+97$

2: Find the sum of first five whole number.

3: Find the sum of smallest three-digit number and largest two-digit number.

4: Find the difference between the largest three-digit whole number and the smallest four digit whole number.

Parent,s sign : _____

5: Subtract the smallest whole number from the smallest natural number.

Learn and write table 15

Date : 7th July, 2021

Day: Wednesday

Unit : 2 “Whole numbers”

Topic: Laws of addition

Learning objectives:

Students will be able to solve the laws of addition

2: Prove and identify law used in each of following.

i) $5 + 3 = 3 + 5$

Parent,s sign : _____

ii) $6 + (9 + 15) = (6 + 9) + 15$

iii) $123 + (231 + 321) = (123 + 231) + 321$

iv) $(10 + 100) + 1000 = 10 + (100 + 1000)$

v) $(44 + 66) + 55 = 44 + (66 + 55)$

Parent,s sign : _____

Learn and write table 16

Date :8th July,2021**Day:Thursday****Unit :2 “Whole number”****Exercise: 2.4****Topic:Multiplication and division of Whole numbers****Learning objectives:**

Students will be able to solve the multiplication and division of whole numbers

1:Find the product of whole numbers

i)1572 ×241

ii) 54756÷234

Parent,s sign : _____

2:Find the product of the smallest 4_digit number and the greatest 2_digit number.

3:Find the smallest 3_digit number which is exactly divisible by 16.

5_Find the the largest 3-digit number which is exactly divisible by 24.

Parent,s sign : _____

Learn and write table 17

Date: 9th July, 2021**Day : Friday****Unit : 02 'whole numbers****Exercise: 2.5****Topic: laws of multiplication****Learning objectives**

Students will be able to solve the laws of multiplication

2_ Prove and identify the law used in each of following:

i) $3 + 2 = 2 + 3$

Parent,s sign : _____

ii) $9 + (11+13) = (9 +11) + 13$

iii) $2 \times (1+5) = (2 \times 1) + (2 \times 5)$

iv) $3 \times (4-1) = (3 \times 4) - (3 \times 1)$

v) $10 \times (5 - 7) = (10 \times 5) - (10 \times 7)$

Parent,s sign : _____

vi) $25 \times (10 + 8) = (25 \times 10) + (25 \times 8)$

Work sheet

Topic: Whole numbers

1. First five natural numbers _____
2. Smallest three digit numbers _____
3. Largest three digit numbers _____
4. Smallest natural number _____
5. Smallest whole number _____
6. $486+564=$ _____
7. $4000-3428=$ _____
8. $456+456+54=$ _____
9. $456 \times 78=$ _____
10. $555 \times 11=$ _____

Parent,s sign : _____

Learn and write table 18

Date :10thjuly,2021**Day:Saturday****Unit : 03 “Factor and multiples****Exercise 3.1****Topic: Odd, even and Prime numbers****Learning objectives**

Students will be able to solve the odd, even and prime numbers

i) List all prime numbers between 10 and 50

ii) Write prime number between 25and 60

iii) list all numbers less than 100 which are multiples of 5

Parent,s sign : _____

and 10.

iv) list all numbers less than 50 which are multiples of 3 and 4.

v) Write all composite number less than 20

vi) write five consecutive composite number just below 50

vii) write all prime number less than 15

Learn and write table 19

Parent,s sign : _____

Date :12th July,2021**Day:Monday****Unit : 03 “Factor and multiples”****Exercise 3.3****Topic: index notation****Learning objectives**

Students will be able to solve the index notation

1: Express the factors by using index notation.**i) $13 \times 13 \times 13$**

ii) $7 \times 7 \times 7 \times 7$

iii) 29×29

iv) $5 \times 5 \times 5 \times 5 \times 5$

v) $11 \times 11 \times 11 \times 11$

Parent,s sign : _____

vi) $3 \times 3 \times 3 \times 3 \times 3 \times 3$

vii) $2 \times 2 \times 2 \times 3 \times 3 \times 5 \times 5$

viii) $7 \times 7 \times 11 \times 23 \times 23$

Learn and write table 20

Date: 13th July, 2021

Day: Monday

Unit : 03 "Factor and multiples"

Exercise 3.3

Topic: Prime factor by Factor tree method

Learning objectives

Parent,s sign : _____

Students will be able to solve the Prime factor by Factor tree method

1: Factorize numbers into prime factor by using the factor tree method.

i)108

ii)462

iii)390

Parent,s sign : _____

iv)770

Learn and write table 11

Date :14th July,2021

Day :Wednesday

Unit : 03 “factor and multiples”

Exercise:3.4

Topic: HCF by common factor

Learning objectives

Students will be able to solve the HCF by common factor

1: Find HCF by writing the common factor of each number.

i)24,36

Parent,s sign : _____

ii) 25,45

iii) 22,44,66

Parent,s sign : _____

Learn and write table 12

Date :15thJuly,2021**Day:Thursday****Unit : 03 “Factor and multiples”****Exercise:3.4****Topic:HCF by Prime factorization****Learning objectives:**

Students will be able to solve the HCF by prime factorization

1: Find the HCF of following numbers,using the prime factorization method.**i)12,18**

ii) 22,55

Parent,s sign : _____

iii)36,54

iv)24,48

Parent,s sign : _____

v)22,132

Learn and write table 13

Date :16th June,2021**Day:Friday****Unit:03 “Factor and Multiples”****Exercise:3.5****Topic:LCM by division method****Learning objectives:**

Students will be able to solve the LCM by division method

1: Find L CM by division method**i)27,81,54**

Parent,s sign : _____

ii) 210, 140, 315

iii) 112, 120, 150

Parent,s sign : _____

Learn and write table 14

Date:17th July,2021**Day:Saturday****Unit : 03 “factor and multiples”****Exercise:3.5****Topic:Word problem of HCF andLCM****Learning objectives:**

Students will be able to solve the word problem of HCF and LCM

1: The HCF of two numbers 525 and 1155 is 105 .find their LCM.

Parent,s sign : _____

2: LCM of two numbers 660 and 2100 is 23100 .Find their HCF.

3:The HCF and LCM of two number are 29 and 3045.if one of the number is 435,find the other:

4:The HCF of two number is 16 and their product is 3328 Find their LCM.

Parent,s sign : _____

Work sheet**Topic: even and odd numbers****Separate the odd and even numbers**

- 4521 it is not divisible by 2 it is odd number

- 6785 _____

- 9876 _____

- 3457 _____

- 6555 _____

- 8798 _____

- 983 _____

- 094 _____

- 5439 _____

- 56472 _____

Learn and write table 15

Parent,s sign : _____

Date :19th July,2021**Day: Monday****Unit:04 “Integers”****Exercise:4.1****Topic: Positive and negative integers****Learning objectives:**

Students will be able to solve the positive and negative integers

Write the definition of integers

1 : Draw the number line and mark the numbers**i) -5 to 0****ii) -4 to +1****2: Fill in blanks with > or < .****i) 6 __ 5****ii) -6 __ -5****iii) -2 __ 0****iv) 0 __ 4****v) 8 __ -10****vi) -9 __ 1****3: Which is greater than -101 or -111?**

Parent,s sign : _____

4: which is smaller than -99 or -199 ?

Learn and write table 16

Date :20thJuly,2021

Day : Tuesday

Unit : 04 “Integers”

Exercise:4.1

Topic: Positive and negative integers

Learning objectives:

Students will be able to solve the positive and negative integers

1: Write Integers between?

2 and 6

2: Write three integers smaller than 2.

3:Write four integers greater than -2.

Parent,s sign : _____

4:Arrange the given integers in ascending and descending order**i) -4,1,-2,0**

ii) 1, -3,- 4, 0

Learn and write table 17

Date :26thJuly,2021**Day:Monday****Unit : 04 “Integers”****Exercise:4.2****Topic: Addition of integers****Learning objectives:**

Students will be able to solve the addition of integers

Parent,s sign : _____

1: Solve the following

i)[(-1) + (-1)] + (-5)

ii)[(+2) + (+3)] + (+4)

iii)[(+3) + (+5)] + (-1)

iv)[(-2) + (-6)] + (+4)

v)(+25) + [(+25) + (+50)]

Parent,s sign : _____

vi)(-18) + [(+25) + (-30)]

Learn and write table 18

Date:27thJuly,2021**Day:Tuesday****Unit :04“Integers”****Exercise:4.3****Topic: Subtraction Of integers****Learning objectives:**

Students will be able to solve the subtraction of integers

1:Simplify**i)[(-8)-(-6)]-(-4)**

Parent,s sign : _____

ii) [(+11) - (+5)] - (+19)

iii) [(-13) - (-18)] - (-17)

iv) [(-18) - (+12)] - (-19)

v) [(+23) - (-9)] - (+29)

vii) [(+100) - (+50)] - (+25)

Parent,s sign : _____

Learn and write table 19

Date :28thJuly,2021**Day:Wednesday****Unit:04 “Integers”****Exercise:4.4****Topic:Multiplication Of integers****Learning objectives:**

Students will be able to solve the multiplication of integers

Simplify each of the following :

i) $(-1) \times (-1) \times (-1) \times (-1)$

ii) $(+1) \times (-2) \times (+3) \times (+4)$

Parent,s sign : _____

iii) $[(+2)x(+9)]x(-4)$

iv) $[(-18)x(+3)]x(+2)$

v) $[(+25)x(-8)]x(-16)$

vi) $[(-100)x(-15)]x(+3)$

Learn and write table 20

Parent,s sign : _____

Date :29th July,2021

Day:Thursday

Unit : 04 “Integers”

Exercise:4.5

Topic: Division of integers

Learning objectives:

Students will be able to the solve division of integers

Find the quotient of the following

i)(+252)÷(+18)

ii)(-195)÷(+15)

iii)(-480)÷(-120)

Parent,s sign : _____

iv) $(+196) \div (-28)$

v) $(-99) \div (+11)$

vi) $(+2000) \div (-40)$

Work sheet

Topic: Ordering integers

Order the integers in ascending order

a: 3, -7, 4, -2, 0 _____

b: - 6, 4, 9, -8, 1 _____

Parent,s sign : _____

Order the integers in descending order:

c: -42,-75 ,40,28,32 _____

d: 35,-17 ,49,-14,-39 _____

e: -45,-17 29,-54,-99 _____

Learn and write table 11

Date :30th July,2021

Day:Friday

Unit : 05 “Simplification”

Exercise:5.1

Topic:BODMAS Rule

Learning objectives:

Parent,s sign : _____

Students will be able to solve BODMAS Rule

Simplify the following

i) $1\frac{1}{24} \div \{1\frac{1}{4} \times (1\frac{1}{10} + 1\frac{2}{5} - 1\frac{1}{4})\}$

ii) $[\frac{8}{9} + [\frac{5}{3} + \{\frac{4}{39} \times (\frac{3}{4} + \frac{2}{3} \times \frac{1}{2})\}]]$

Parent,s sign : _____

Learn and write table 12

Date :31th July,2021**Day :Saturday****Unit : 05 “Simplification”****Exercise:5.1****Topic:BODMAS Rule****Learning objectives:**

Students will be able to solve BODMAS Rule

$$i)[1\frac{1}{4} + 1\frac{1}{10} \times \{ 8\frac{1}{2} - 6\frac{1}{2} \times 1\frac{5}{39} \}]$$

Parent,s sign : _____

ii) $2\frac{8}{14} \div [1\frac{4}{5} \times \{1\frac{1}{3} + (2\frac{1}{2} + 1\frac{1}{3} - 2\frac{1}{6})\}] \times 1\frac{2}{3}$

Learn and write table 13

Parent,s sign : _____