



DISTRICT PUBLIC SCHOOL & COLLEGE DEPALPUR

HOME TASK WITH WORK SHEET, ACTIVITY

Summer pack

1ST SEMESTER

Academic Session (2021-2022)

1st July 2021 TO 31st July 2021



Subject: Mathematics

Class: FIVE

STUDENT'S NAME:-----FATHER'S NAME:-----

CLASS:-----SECTION:-----

TOTAL MARKS:-----OBTAINED MARKS-----

Parent's Sign: _____



District Public School & College Depalpur

Block Syllabi Session 2021-2022

Book: Mathematics (PCTB)

Subject	1 st Semester
Mathematics 5 Punjab text book board	Unit: 1,2,3,4 Unit 1: complete Unit 2:complete Unit 3: complete Unit 6: complete

Parent's Sign: _____

Date:1st july,2021

Day:Thursday

Unit 1**Exercise : 1****Topic: Numbers**

Learning objectives: Student will learn about Numbers in different form.

Q.1) Write the following number in words.

a)290014

Solution:

We have place value chart.

Million	Hundred Thousand	Ten Thousand	Thousand	Hundred	Tence	Once
	2	9	0	0	1	4

We can read as.

Two hundred ninety thousand and fourteen.

(b) 433 453

Solution:

Parent's Sign: _____

(c) 910 009

Solution:

(d) 871 653

Solution:

(e) 242 140

Solution:

(f) 688 069

Solution:

(g) 874 454

Solution:

Parent's Sign: _____

(h) 495 523**Solution:****Learn and write table of 2**

$2 \times 1 = 2$	
$2 \times 2 = 4$	
$2 \times 3 = 6$	
$2 \times 4 = 8$	
$2 \times 5 = 10$	
$2 \times 6 = 12$	
$2 \times 7 = 14$	
$2 \times 8 = 16$	
$2 \times 9 = 18$	
$2 \times 10 = 20$	

Parent's Sign: _____

Date: 2nd July, 2021

Day: Friday

Unit 1

Exercise : 1

Topic: Numbers

Learning objectives : Student will learn about Numbers in different form.

Q.2) Write the following numbers in expanded form:

In expanded form, we can write it as

(a) 131 441

Solution.

$$131\ 441 = 100000 + 30000 + 1000 + 400 + 40 + 1$$

(b) 600 900

Solution:

(c) 949 181

Solution:

Parent's Sign: _____

(d) 466 456

Solution:

(e) 286 019

Solution:

(f) 479 321

Solution:

(g) 510 602

Solution:

(h) 202 001

Solution:

Parent's Sign: _____

Learn and write table of 3

$3 \times 1 = 3$	
$3 \times 2 = 6$	
$3 \times 3 = 9$	
$3 \times 4 = 12$	
$3 \times 5 = 15$	
$3 \times 6 = 18$	
$3 \times 7 = 21$	
$3 \times 8 = 24$	
$3 \times 9 = 27$	
$3 \times 10 = 30$	

Date: 3rd july, 2021

Day: saturday

Unit 1**Exercise : 1**

Parent's Sign: _____

Topic: Number

Learning objectives: Student will learn about Numbers in different form.

Q.3) Match column A with column B.

Coloumn A	Column B
Eight hundred and seven thousand and eight hundred	808 808
Two hundred and seventy eight thousand and seventy Eight.	206 002
Eight hundred and eight thousand eight hundred and eight.	807 800
Tow hundred and seven thousand five hundred and five.	278 078
Two hundred and six thousand and two.	207 505

Q.4) Write the place and place value of underline digits.

a) 545 445

Solution.

5 is at hundred thousand place and its place value= $5 \times 100\ 00 = 500\ 000$

(b) 846532

Solution.

(c) 682 456

Solution.

(d) $980\ 714$

Solution.

(e) 997924

Solution.

(f) 425419

Solution.

(g) 817656

Solution.

(i) $701\ 232$

Solution.

Learn and write table of 4

$4 \times 1 = 4$	
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Parent's Sign: _____

$4 \times 2 = 8$	
$4 \times 3 = 12$	
$4 \times 4 = 14$	
$4 \times 5 = 20$	
$4 \times 6 = 24$	
$4 \times 7 = 28$	
$4 \times 8 = 32$	
$4 \times 9 = 36$	
$4 \times 10 = 40$	

Date: 5th july,2021

Day:Monday

Unit 1

Exercise : 1

Topic: Number

Learning objectives: Student will learn about Numbers in different form.

Parent's Sign: _____

Q.5) According to 2017 census the population of Islamabad is 114825.

(a) write in it words.

Solution.

One hundred fourteen thousand eight hundred twenty five.

(b)write in it expended form.

Solution.

$$114\ 825=100000+10000+4000+800+20+5$$

Q.6) The speed of light in vacume is 299 792 kilometer per second.

(a) write it in words.

Solution.

(b) write it in expended form.

Solution.

Learn and write table of 5

$5 \times 1 = 5$	
------------------	--

Parent's Sign: _____

$5 \times 2 = 10$	
$5 \times 3 = 15$	
$5 \times 4 = 20$	
$5 \times 5 = 25$	
$5 \times 6 = 30$	
$5 \times 7 = 35$	
$5 \times 8 = 40$	
$5 \times 9 = 45$	
$5 \times 10 = 50$	

Date: 6th july,2021

Day:Tuesday

Unit 1

Exercise : 2

Topic: Addition

Learning objective:Students will be able to add numbers upto 5-digit number.

Parent's Sign: _____

Q.1) Add the number

a) $100\ 700 + 291\ 562$

Solution.

H.th	T.th	Th	H	T	O
1	0	0	7	0	0
+ 2	9	1	5	6	2
<hr/>					
3	9	2	2	6	2
<hr/>					

b) $417\ 381 + 309\ 201$

Solution.

c) $591\ 727 + 309\ 201$

Solution.

d) $319\ 898 + 428\ 888$

Solution.

e) $766\ 442 + 611\ 222$

Solution.

f) $542\ 001 + 621\ 416$

Solution.

Parent's Sign: _____

Learn and write table of 6

$6 \times 1 = 6$	
$6 \times 2 = 12$	
$6 \times 3 = 18$	
$6 \times 4 = 24$	
$6 \times 5 = 30$	
$6 \times 6 = 36$	
$6 \times 7 = 42$	
$6 \times 8 = 48$	
$6 \times 9 = 54$	
$6 \times 10 = 60$	

Date: 7th july,2021

Day:Wednasday

Unit 1

Parent's Sign: _____

Exercise : 2**Topic: Subtraction**

Learning objectives: Students will be able to subtract numbers up to 5-digit number.

Q.2) Subtract the following.

a) 209 856 – 205 660

Solution.

	H.th	T.th	Th	H	T	O
	2	0	9	8	5	6
-	2	0	5	6	6	0
<hr/>						
	0	0	4	1	9	6

b) 788 991 - 206 070

Solution.

c) 395 108 – 165 439

Solution.

d) 673 265 – 656 600

Solution.

e) 686 898 – 333 333

Solution.

f) 744 762 – 565 656

Solution.

Parent's Sign: _____

Learn and write table of 7

$7 \times 1 = 7$	
$7 \times 2 = 14$	
$7 \times 3 = 21$	
$7 \times 4 = 28$	
$7 \times 5 = 35$	
$7 \times 6 = 42$	
$7 \times 7 = 49$	
$7 \times 8 = 56$	
$7 \times 9 = 63$	
$7 \times 10 = 70$	

Parent's Sign: _____

Date: 8th july,2021

Day:Thursday

Unit 1**Exercise : 2****Topic: Addition and subtraction**

Learning objectives:Students enables How to solve real life problem involving addition and subtraction.

Q.3) Sadia bought a plot for Rs 659 814 and another plot for Rs 799 999.Find the total amount she spent.

Solution.

Sadia bought a plot at rate = Rs 6 5 9 8 1 4

She bought another plot at rate = Rs+ 7 9 9 9 9 9

Total amount she spent = Rs 1 4 5 9 8 1 3

Q.4) Amaan has an annual income of Rs 456 750.He spends Rs 125 295 on the construction of a masjid. How much amount is he left with?

Solution.

Annual income of amaan = Rs 4 5 6 7 5 0

He spends on masjid = Rs-1 2 5 2 9 5

The amount which left = Rs 3 3 1 4 5 5

Q.5) Lahore has a population of 459 814 in one town and 325 919 in the other.

Parent's Sign: _____

(a) what is the total population of both the towns? Hint (Add)

(b) what is the difference between their population? Hint (subtract)

Solution.

Q.7) The government built 386 655 houses for the homeless in one year. The second year 24 521 fewer homes were built than the previous year. How many houses did the government build in both the year?

Solution.

Q.8) Fatima has Rs 954 888 in her bank account .If she withdraws Rs 135 600 from the bank to by a laptop,how much money is she left with?

Solution.

Q.9) A factory owner gave Rs 448 870 as reward to his employees in one year.In the second year Rs 437 995 were given as reward.

(a) What is the total amount given as reward in both the year?

(b) In which year the factor owner gave less reward and how much less?

Solution.

Learn and write table of 8

$8 \times 1 = 8$	
$8 \times 2 = 16$	
$8 \times 3 = 24$	
$8 \times 4 = 32$	
$8 \times 5 = 40$	
$8 \times 6 = 48$	
$8 \times 7 = 56$	
$8 \times 8 = 64$	
$8 \times 9 = 72$	
$8 \times 10 = 80$	

Parent's Sign: _____

Date:9th July,2021

Day:Friday

Unit 1

Exercise : 2

Topic: Addition and subtraction

Learning objectives:Students enables How to solve real life problem involving addition and subtraction.

Q.6) The annual yield of mango orchard is 656 565 Kg.In the second year,the yield of mango orchard decreased by 100 984 Kg. How much mango was produce in the second year.

Solution.

The annual yield of mango orchard = 6 5 6 5 6 5 Kg

second year yield of mango decreased= - 1 0 0 9 8 4 Kg

The mango produce in second year = 5 5 5 5 8 1 Kg

Q.10) Farhan donates Rs 600 000 to two Edhiorganizations.If he pays Rs 385 990 to one Edhi organization how much will he pay to the other organization.

Solution.

Parent's Sign: _____

Learn and write table of 9

$9 \times 1 = 9$	
$9 \times 2 = 18$	
$9 \times 3 = 27$	
$9 \times 4 = 36$	
$9 \times 5 = 45$	
$9 \times 6 = 54$	
$9 \times 7 = 63$	
$9 \times 8 = 72$	
$9 \times 9 = 81$	
$9 \times 10 = 90$	

Parent's Sign: _____

Date: 10th July, 2021

Day: Saturday

Unit 1

Exercise : 3

Topic: Multiplication

Learning objectives: Students enables to learn multiplication up to 5-digit by 10, 100 and 1000.

Q.1) Multiply the following numbers by 10, 100 and 1000:

(a) 381

Solution.

when we multiply a whole number by 10 , we put one zero to its right like as

$$381 \times 10 = 3810$$

when we multiply a whole number by 100 , we put two zero to its right like as

$$381 \times 100 = 38100$$

when we multiply a whole number by 1000 , we put three zero to its right like as

$$381 \times 1000 = 381000$$

(b) 4090

Solution

$$4090 \times 10 = 40900$$

$$4090 \times 100 = 409000$$

Parent's Sign: _____

$$4\ 090 \times 1\ 000 = 4090\ 000$$

(c) 97 509

Solution

(d) 269 472

Solution

(e) 852 118

Solution

Learn and write table of 10

Parent's Sign: _____

$10 \times 1 = 10$	
$10 \times 2 = 20$	
$10 \times 3 = 30$	
$10 \times 4 = 40$	
$10 \times 5 = 50$	
$10 \times 6 = 60$	
$10 \times 7 = 70$	
$10 \times 8 = 80$	
$10 \times 9 = 90$	
$10 \times 10 = 100$	

Date:12th july,2021

Day:Monday

Unit : 1

Exercise: 3

Topic: Division

Parent's Sign: _____

Learning objectives: Students enables to learn division up to 5-digit by 10,100 and 1000.

Q.2) Divide the following numbers by 10,100 and 1000.

a) 49 000

solution.

When we divide a non zero whole number having 0 at its ones place by 10 ,we remove one zero from its right.

$$49\ 000 \div 10 = 4900$$

When we divide a non zero whole number having 0 at its ones and tens place by 100 ,we remove two zero from its right.

$$49\ 000 \div 100 = 490$$

When we divide a non zero whole number having 0 at its ones and tens and hundred place by 1000 ,we remove three zero from its right.

$$49\ 000 \div 1000 = 49$$

a) 49 000

Solution

$$49\ 000 \div 10 = 4900$$

$$49\ 000 \div 100 = 490$$

$$49\ 000 \div 1000 = 49$$

(b) 78 000

Solution

(c) 65 000

Solution

(d) 597 000

Solution

(e) 210 000

Solution

Parent's Sign: _____

Learn and write table of 11

$11 \times 1 = 11$	
$11 \times 2 = 22$	
$11 \times 3 = 33$	
$11 \times 4 = 44$	
$11 \times 5 = 55$	
$11 \times 6 = 66$	
$11 \times 7 = 77$	
$11 \times 8 = 88$	
$11 \times 9 = 99$	
$11 \times 10 = 110$	

Parent's Sign: _____

Date:13th july,2021

Day:Tuesday

Unit :1

Exercise :3

Topic: Multiplication

Learning objective: Students enables to learn multiplication up to 5-digit by 2 and 3 digit number.

Q.3) Multiply the following number.

a) 624 x 23

solution.

$$\begin{array}{r} 624 \\ \times 23 \\ \hline 1872 \\ 1248 \times \\ \hline 14352 \end{array}$$

(b)2 456 x 90

solution.

(c) 1 092 x 981

solution.

(d) 78 543 x 49

solution.

(e) 45 201x 56

solution.

Parent's Sign: _____

(f) 111 256 x 342

solution.

(g) 790 902 x 643

solution.

(h) 356 219 x 101

solution.

Parent's Sign: _____

Learn and write table of 12

$12 \times 1 = 12$	
$12 \times 2 = 24$	
$12 \times 3 = 36$	
$12 \times 4 = 48$	
$12 \times 5 = 60$	
$12 \times 6 = 72$	
$12 \times 7 = 84$	
$12 \times 8 = 96$	
$12 \times 9 = 108$	
$12 \times 10 = 120$	

Date: 14th july, 2021Day: **Wednesday****Unit : 1**

Parent's Sign: _____

Exercise: 3**Topic: Division**

Learning objective: Students enables to learn Division up to 5-digit by 2 and 3 digit number.

Q.4) Divide the following number.

(a) $13\ 440 \div 15$

Solution.

$$\begin{array}{r}
 896 \\
 15 \overline{) 13440} \\
 \underline{120} \\
 144 \\
 \underline{135} \\
 90 \\
 \underline{90} \\
 0
 \end{array}$$

(b) $86\ 449 \div 29$

Solution.

(c) $32\ 536 \div 56$

Solution.

(d) $47\ 088 \div 48$

Solution.

(e) $56\ 780 \div 20$

Solution.

(f) $26\ 166 \div 98$

Solution.

(g) $73\ 810 \div 11$

Solution.

(h) $64\ 454 \div 32$

Solution.

Learn and write table of 13

$13 \times 1 = 13$	
$13 \times 2 = 26$	
$13 \times 3 = 39$	
$13 \times 4 = 52$	
$13 \times 5 = 65$	
$13 \times 6 = 78$	
$13 \times 7 = 91$	
$13 \times 8 = 104$	
$13 \times 9 = 117$	
$13 \times 10 = 130$	

Parent's Sign: _____

Date:15th july,2021

Day:Thursday

Unit : 1**Exercise: 3****Topic: Division&Multiplication**

Learning objective:Students enables How to solve real life problem involving division and multiplication.

Q.5) Aliya has Rs 22580.She wants to distribute them among 18 needy people.Find:

(a) How much amount will each person get?

(b) How much amount will be left?

Solution.

(a) We have to divide the amount among 18 people so

$$\begin{array}{r}
 1254 \\
 18 \overline{) 22580} \\
 \underline{18} \\
 45 \\
 \underline{36} \\
 98 \\
 \underline{90} \\
 80 \\
 \underline{72} \\
 8 \text{ remainder} \\
 \hline
 \end{array}$$

Parent's Sign: _____

So Aliya distribute to each person 1254 rupees.

(b)The amount which left after dividing to 18 people is 8 rupees.

Q.5) Aliya has Rs 22580.She wants to distribute them among 18 needy people.Find:

(a) How much amount will each person get?

(b) How much amount will be left?

Solution.

Q.6) Omar's monthly income is Rs.13 582.Find out his total income in 134 months.

Solution.

We have to done multiplication to find required income.

Parent's Sign: _____

$$\begin{array}{r}
 13582 \\
 \times 134 \\
 \hline
 54328 \\
 40746x \\
 1382xx \\
 \hline
 599988
 \end{array}$$

So income in 134 month is 599988.

Q.8) A poultry farm sells 576 012 eggs in a day. How many eggs will poultry form sell in 56 days?(hint:multiply)

Solution.

Q.9) A laptop costs Rs 89 710. If Hammad buys 10 such laptops, how much amount will he needed?

Solution.

Learn and write table of 14

$14 \times 1 = 14$	
$14 \times 2 = 28$	
$14 \times 3 = 42$	
$14 \times 4 = 56$	
$14 \times 5 = 70$	
$14 \times 6 = 84$	
$14 \times 7 = 98$	
$14 \times 8 = 112$	
$14 \times 9 = 126$	
$14 \times 10 = 140$	

Date:16th july,2021

Day:Friday

Unit : 1

Parent's Sign: _____

Exercise: 3**Topic: Division&Multiplication**

Learning objective:Students enables How to solve real life problem involving division and multiplication.

Q.7) A toy factory manufactures 28 550 toys in 25 day.How many toys will it manufactur in a day?

Solution.

We have to done division to find required number of toys manufacture in a day.

$$\begin{array}{r}
 1142 \\
 25 \overline{) 28550} \\
 \underline{25} \\
 35 \\
 \underline{25} \\
 105 \\
 \underline{100} \\
 50 \\
 \underline{50} \\
 0
 \end{array}$$

So toyesmanufacturs in one day are 1142.

Q.7) A toy factory manufactures 28 550 toys in 25 day.How many toys will it manufactur in a day?

Solution.

Q.10) There are 145 boxes of pencils in one shop. There are 5 pencils in each box. Of these, 48 boxes are of blue pencils and the rest are of red pencils. Find:

- (a) The total number of pencils.**
- (b) How many red pencils are there.**

Solution.

Learn and write table of 15

$15 \times 1 = 15$	
$15 \times 2 = 30$	
$15 \times 3 = 45$	
$15 \times 4 = 60$	
$15 \times 5 = 75$	
$15 \times 6 = 90$	
$15 \times 7 = 105$	
$15 \times 8 = 120$	
$15 \times 9 = 135$	
$15 \times 10 = 150$	

Date: 17th july,2021

Day:Saturday

Unit : 1

Parent's Sign: _____

Exercise: 4

Topic: Number pattern

Learning objective: Students enables to learn number pattern.

Q.1) Identify the rules of these pattern and also find the next 3 terms.

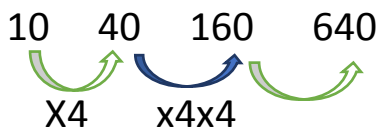
a) 10, 40, 160, 640, _____, _____, _____

solution.

10, 40, 160, 640,

If we observe the term of this pattern, we see that every next number is obtained by multiplying the previous number with 4.

So it is multiplication pattern.



Rules of pattern: Multiplying by 4

So its next terms will be 2560, 10240, 40960.

(b) 22, 220, 2200, _____, _____, _____

(c) 352, 176, 88, _____, _____, _____

(d) 780, 880, 980, _____, _____, _____

(e) 560, 540, 520, 500, _____, _____, _____

Learn and write table of 16

$16 \times 1 = 16$	
$16 \times 2 = 32$	
$16 \times 3 = 48$	
$16 \times 4 = 64$	
$16 \times 5 = 80$	
$16 \times 6 = 96$	
$16 \times 7 = 112$	
$16 \times 8 = 128$	
$16 \times 9 = 144$	
$16 \times 10 = 160$	

Date: 19th july, 2021

Day: Monday

Unit : 1

Exercise: 4

Parent's Sign: _____

Topic: Number pattern

Learning objective: Students enables to learn number pattern.

Q.3) Observe the given tables and find the rules of the pattern.

a)

Position	Terms
12	4
15	5
18	6
21	7
24	8

Solution.

Rule of pattern: Multiplying each term by 3 we get position values

As

Position	Terms
12	← 4 x 3
15	← 5 x 3
18	← 6 x 3
21	← 7 x 3
24	← 8 x 3

Parent's Sign: _____

(b)

Position	Terms
7	12
17	22
27	32
37	42
47	52

(c)

Position	Terms
20	11
31	22
42	33
53	44
64	55

(d)

Position	Terms
50	100
100	200
150	300

Parent's Sign: _____

200	400
250	500
300	600

Work sheet

Observe the given hundreds chart and identify at least 5 patterns of various arithmetic operations. Also find the rules of these patterns.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Learn and write table of 17

$17 \times 1 = 17$	
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$17 \times 2 = 34$	
$17 \times 3 = 51$	
$17 \times 4 = 68$	
$17 \times 5 = 85$	
$17 \times 6 = 102$	
$17 \times 7 = 119$	
$17 \times 8 = 136$	
$17 \times 9 = 153$	
$17 \times 10 = 170$	

Date: 20th july, 2021

Day: Tuesday

Unit : 1

Review Exercise

Topic: M.C.Q's

Parent's Sign: _____

Learning objective: Assess the student learning abilities.

Tick the correct options.

(1) We put spaces after every digit in numbers.

- (a) 2 (b) 3 (c) 4 (d) 16

(2) The place value of 2 in the number 985 621 is.....

- (a) 2 (b) 20 (c) 200 (d) 2000

(3) In 856 211, the digit..... is at thousand place.

- (a) 2 (b) 5 (c) 6 (d) 8

(4) When we multiply a number by....., we put 3 zeros to the right side.

- (a) 10 (b) 100 (c) 1000 (d) 1

(5) When we divide a number by..... we remove one zero from the right side.

- (a) 10 (b) 100 (c) 1000 (d) 1

Learn and write table of 18

$18 \times 1 = 18$	
$18 \times 2 = 36$	
$18 \times 3 = 54$	

Parent's Sign: _____

$18 \times 4 = 72$	
$18 \times 5 = 90$	
$18 \times 6 = 108$	
$18 \times 7 = 126$	
$18 \times 8 = 144$	
$18 \times 9 = 167$	
$18 \times 10 = 180$	

Date: 26th july,2021

Day:Monday

Unit : 2

Exercise : 1

Topic: HCF

Learning objective: Student will learn about finding HCF By prime factorization method.

Q.1) Find the HCF of the following numbers by using prime factorization method:

(a) 58, 72

Parent's Sign: _____

Solution.

Let's we find the HCF of 58,72 by using prime factorization method.

$$\begin{array}{r|l} 2 & 58 \\ \hline 29 & 29 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 72 \\ \hline 2 & 36 \\ \hline 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

Prime factors of 58 = $1 \times \underline{2} \times 29$

Prime factors of 72 = $1 \times \underline{2} \times 2 \times 2 \times 3 \times 3$

Common factors = 1×2

Product of common prime factors = 2

So 2 is the HCF of 58 and 72.

(b)21, 48

Solution.

(c) 56, 70

Solution.

(d) 45, 90

Solution.

Parent's Sign: _____

(e) 42,49

Solution.

Parent's Sign: _____

Learn and write table of 19

$19 \times 1 = 19$	
$19 \times 2 = 38$	
$19 \times 3 = 57$	
$19 \times 4 = 76$	
$19 \times 5 = 95$	
$19 \times 6 = 114$	
$19 \times 7 = 133$	
$19 \times 8 = 152$	
$19 \times 9 = 171$	
$19 \times 10 = 190$	

Date: 27th July, 2021

Day: Tuesday

Parent's Sign: _____

Unit : 2**Exercise : 1****Topic: HCF**

Learning objective: Student will learn about finding HCF By prime factorization method.

Q.1) Find the HCF of the following numbers by using prime factorization method:

(f) 15, 18, 56

Solution.

Let's we find the HCF of 15,18,56 by using prime factorization method.

$$\begin{array}{r|l} 3 & 15 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 18 \\ \hline 3 & 9 \\ \hline 3 & 3 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 2 & 56 \\ \hline 2 & 28 \\ \hline 2 & 14 \\ \hline 7 & 7 \\ \hline & 1 \end{array}$$

Prime factors of 15 = $1 \times 3 \times 5$

Prime factors of 18 = $1 \times \underline{2} \times 3 \times 3$

Prime factor of 56 = $1 \times 2 \times 2 \times 2 \times 7$

Common factors = 1

Product of common prime factors = 1

Parent's Sign: _____

So 1 is the HCF of 15,18and 56.

(g)42, 54, 64

Solution.

(h) 18, 30, 90

Solution.

Parent's Sign: _____

(i) 12, 24, 36

Solution.

Parent's Sign: _____

(j) 18, 36, 76

Solution.

(k) 5, 35, 40

Solution.

Parent's Sign: _____

(I) 13, 52, 78

Solution.

Learn and write table of 20

$20 \times 1 = 20$	
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Parent's Sign: _____

$20 \times 2 = 40$	
$20 \times 3 = 60$	
$20 \times 4 = 80$	
$20 \times 5 = 100$	
$20 \times 6 = 120$	
$20 \times 7 = 140$	
$20 \times 8 = 160$	
$20 \times 9 = 180$	
$20 \times 10 = 210$	

Date: 28th july,2021

Day:Wednesday

Unit : 2

Exercise : 1

Topic: HCF

Parent's Sign: _____

Learning objective: Student will learn about finding HCF By division method.

Q.2) Find the HCF of the following numbers by using division method:

(a) 13,65

Solution.

Steps of division method

- 1) Take numbers . Devide the larger number 65 by the smaller number 13 .we get 9 as first remainder.**

$$\begin{array}{r} 13 \overline{) 65} \quad 5 \\ \underline{65} \quad \checkmark \\ 0 \end{array}$$

- 2) There is no number as first remainder.13 divide exactly 65.**

so 13 is the HCF of 13 and 56.

(b)25, 75

Solution.

(c)942,98

Solution.

Learn and write table of 6

$6 \times 1 = 6$	
$6 \times 2 = 12$	
$6 \times 3 = 18$	
$6 \times 4 = 24$	

Parent's Sign: _____

$6 \times 5 = 30$	
$6 \times 6 = 36$	
$6 \times 7 = 42$	
$6 \times 8 = 48$	
$6 \times 9 = 54$	
$6 \times 10 = 60$	

Date: 29th july,2021

Day:Thursday

Unit : 2

Exercise : 1

Topic: HCF

Learning objective: Student will learn about finding HCF By division method.

Q.2) Find the HCF of the following numbers by using division method:

Parent's Sign: _____

d) 16, 20, 70

Solution.

Steps of division method

- 1) Take any two number. Divide the larger number 20 by the smaller number 16. we get 4 as first remainder.

$$\begin{array}{r}
 16 \overline{) 20} \quad 1 \\
 \underline{16} \\
 4 \overline{) 16} \quad 4 \\
 \underline{16} \\
 0
 \end{array}$$

- 2) Divide 16 by first remainder 4 .we get 0 as remainder.

- 3) Now divide 3rd by last divisor 4.

$$\begin{array}{r}
 4 \overline{) 70} \quad 17 \\
 \underline{4} \\
 30 \\
 28 \quad 2 \\
 \hline
 2 \quad 4 \\
 \quad 4 \\
 \hline
 \quad 0
 \end{array}$$

The last divisor 2 is HCF.

Thus 2 is the HCF of 16, 20, 70

(e) 56, 84, 88

Solution.

(f) 57, 76, 95

Solution.

(g) 16, 32, 96

Solution.

Parent's Sign: _____

(h) 20, 40, 80

Solution.

(i) 48, 76, 96

Solution.

Parent's Sign: _____

(j) 24, 48, 72

Solution.

(g) 51, 65, 75

Parent's Sign: _____

Solution.

(h) 13, 39, 78

Solution.

Parent's Sign: _____

Learn and write table of 7

$7 \times 1 = 7$	
$7 \times 2 = 14$	
$7 \times 3 = 21$	
$7 \times 4 = 28$	
$7 \times 5 = 35$	
$7 \times 6 = 42$	
$7 \times 7 = 49$	
$7 \times 8 = 56$	
$7 \times 9 = 63$	
$7 \times 10 = 70$	

Parent's Sign: _____

Date: 30th July, 2021

Day: Friday

Unit : 2

Exercise : 1

Topic: HCF

Learning objective: Students enables How to solve real life problem involving HCF.

Q.3) The lengths of the two ropes are 24 meters and 14 meters respectively. If Ali wants to cut the ropes into pieces of equal length without any rope left, find out what will be the maximum length of each piece?

Solution.

We have to find the LCM for maximum length of each piece.

$$\begin{array}{r|l}
 2 & 24 \\
 \hline
 2 & 12 \\
 \hline
 2 & 6 \\
 \hline
 3 & 3 \\
 \hline
 & 1
 \end{array}$$

$$\begin{array}{r|l}
 2 & 14 \\
 \hline
 7 & 7 \\
 \hline
 & 1
 \end{array}$$

Prime factor of 24 = $1 \times \underline{2} \times 2 \times 2 \times 3$

Prime factor of 14 = $1 \times \underline{2} \times 7$

Common factor = $1 \times \underline{2}$

Product of common factor = 2

HCF is 2.

Parent's Sign: _____

So 2 meters is the maximum length of each piece.

Q.4) For the independence day celebrations 52 students in white dress 65 students in green dress and 39 students in blue dress are to be arranged in equal rows in such a way that students of one colour dress will be in each row. What is the greatest number of students that could be in each row?

Solution.

Q.5) Find the greatest number that divides 16, 24 and 48 completely.

Solution.

Q.6) Ibrahim and mahwish are preparing first aid kit for the students.They have 30 perforated adhesive bandages, 60 triangular bandages and 75 rectangular bandages.They must distribute these equality in the kits, with nothing left over.What is the greatest number of kits they can make with this quantity of bandages?

Solution.

Learn and write table of 8

$8 \times 1 = 8$	
$8 \times 2 = 16$	
$8 \times 3 = 24$	

Parent's Sign: _____

$8 \times 4 = 32$	
$8 \times 5 = 40$	
$8 \times 6 = 48$	
$8 \times 7 = 56$	
$8 \times 8 = 64$	
$8 \times 9 = 72$	
$8 \times 10 = 80$	

Date: 31st july,2021

Day:Saturday

Unit : 2

Exercise : 2

Topic: LCM

Learning objective: Student will learn about finding LCM By prime factorization method.

Q.1) Find the HCF of the following numbers by using prime factorization method:

Parent's Sign: _____

(a) 3, 21**Solution.**

$$\begin{array}{r|l} 3 & 3 \\ \hline & 1 \end{array}$$

$$\begin{array}{r|l} 3 & 21 \\ \hline 7 & 7 \\ \hline & 1 \end{array}$$

Prime factors of 3 = 1 x 3

Prime factors of 21 = 1 x 3 x 7

Product of Common prime factor = 1 x 3 = 3

Product of non-common prime factor = 7

Product of common and non- common factor = 3 x 7

$$= 21$$

Hence LCM of 3 and 21 is 21.

(b) 12, 80**Solution.**

(c)20, 15

Solution.

Learn and write table of 9

$9 \times 1 = 9$	
$9 \times 2 = 18$	
$9 \times 3 = 27$	
$9 \times 4 = 36$	

Parent's Sign: _____

$9 \times 5 = 45$	
$9 \times 6 = 54$	
$9 \times 7 = 63$	
$9 \times 8 = 72$	
$9 \times 9 = 81$	
$9 \times 10 = 90$	

Parent's Sign: _____