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DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics 5

Quarter 2
Lesson
8

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Worksheet for Mathematics Grade 5
Quarter 2: Lesson 8 Week 8
SY 2024-2025

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics 5	**Quarter:**	2nd Quarter
Lesson No.:		**Date:**	
Lesson Title/ Topic:	**Prime and Composite Numbers**		
Name:		**Grade & Section:**	

I. Activity No. 1: Identifying Prime and Composite Numbers using Arrays

II. Objective(s):

a. Use models to illustrate concepts of prime and composite numbers.

III. Materials Needed:

Paper, Pencil or Pen

IV. Instructions:

A. Determine whether the following numbers are **PRIME** and **COMPOSITE** using arrays. Write **P** if the number is prime and **C** if it is composite. (5 points each)

____1. 26 Factors: _____ Arrays:	____2. 23 Factors: _____ Arrays:
____3. 43 Factors: _____ Arrays:	____4. 34 Factors: _____ Arrays:
____5. 45 Factors: _____ Arrays:	____6. 37 Factors: _____ Arrays:

B. Determine the number that is being described. Write your answer on the space provided. (1 point each)

_____1. The prime number between 6 and 10.
_____2. The composite number between 15 and 20 that is divisible by 9.
_____3. The product of the smallest prime number and the smallest composite number.
_____4. The sum of all prime numbers less than 10.
_____5. The difference between the prime number between 25 and 30 and the largest composite number less than 200.

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics 5	**Quarter:**	2nd Quarter
Lesson No.:		**Date:**	
Lesson Title/ Topic:	**Divisibility Rules**		
Name:		**Grade & Section:**	

I. Activity No. 2: Identifying Prime and Composite Numbers using the Sieve of Eratosthenes

II. Objective(s):

a. Use Sieve of Eratosthenes to determine prime and composite numbers from 1 to 200.

III. Materials Needed:

Paper, Pencil or Pen, Crayons

IV. Instructions:

A. Identify all the prime numbers between 1 to 100 using the Sieve of Eratosthenes. (1 point each)

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

PRIME NUMBERS: _____

B. Refer to the Prime Numbers Chart that you just constructed. Determine the number that is being described on each item. (1 point each)

_____1. What is the largest prime number between 1 and 100?
_____2. What is the difference between the largest prime number and the smallest composite number?
_____3. What is the only even prime number?
_____4. What is the sum of all prime numbers between 70 and 80?
_____5. What numbers are the only twin primes between 50 and 100?
_____6. What is the sum of all prime numbers between 10 and 20?
_____7. What is the difference between the largest prime number and the least composite number between 20 and 50?
_____8. What is the sum of all twin primes that is in between 10 and 20?
_____9. How many prime numbers are in between 50 and 100?
_____10. What is the product of the least and largest prime numbers in between 1 and 100?

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics 5	**Quarter:**	2nd Quarter
Lesson No.:		**Date:**	
Lesson Title/ Topic:	**Divisibility Rules**		
Name:		**Grade & Section:**	

I. Activity No. 3: Formative Assessment (30-minutes)

II. Objective(s):

a. Use models to illustrate concepts of prime and composite numbers.
b. Use Sieve of Eratosthenes to determine prime and composite numbers from 1 to 200.

III. Materials Needed:

Paper, Pencil or Pen

IV. Instructions:

A. Identify all the prime numbers between 1 to 200 using the Sieve of Eratosthenes. (1 point each)

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
101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200

PRIME NUMBERS: _____

_____

Steps:

1. Put an (x) on number 1.
2. Color the number 2 **yellow.** Color all multiples of 2 **red.**
3. Color the number 3 **yellow.** Color all multiples of 3 **red.**
4. Color the number 5 **yellow.** Color all multiples of 5 **red.**
5. Color the number 7 **yellow.** Color all multiples of 7 **red.**
6. Color the number 11 **yellow.** Color all multiples of 11 **red.**
7. Color the number 13 **yellow.** Color all multiples of 13 **red.**
8. Color all unmarked numbers with **yellow.**

B. Refer to the Prime Numbers Chart that you just constructed. Determine the number that is being described on each item. (1 point each)

_____1. How many prime numbers are there between 1 and 200?
_____2. What is the largest prime number between 1 and 200?
_____3. What is the least twin prime numbers between 100 and 200?
_____4. What is the largest twin prime numbers between 100 and 200?
_____5. What is the difference between the largest prime number and the least composite number in between 1 to 200?
_____6. How many prime numbers are there between 100 and 200?
_____7. How much more is the largest prime number than the least prime number between 100 and 200?
_____8. What is the sum of all prime numbers between 100 and 110?
_____9. What is the only prime number between 140 and 150?
_____10. How many pairs of twin prime numbers are there in between 100 and 200?

V. Synthesis/Extended Practice/Differentiation (if needed):