

Name _____

due FRIDAY
Date 11/22/19

Homework
10.1

Factors and Multiples

Week 15

Homework

Use your notebook!!!

Look!

Factors

Factors are the darkly shaded numbers along the top and far left of the table.

Example: The factors for 6 on the table are: 1, 2, 3, and 6.

Multiples

Multiples are the lightly shaded numbers down a column or along a row.

Example: The first 5 multiples of 2 and 3 are:

2: 2, 4, 6, 8, 10

3: 3, 6, 9, 12, 15

6 is a common multiple of 2 and 3.

Common multiples appear in both lists.

List the factors on the table for each number.

1. 18

2. 4

3. 12

4. 8

Use the table to list 10 multiples for each number in each pair.

Then circle the common multiples.

5. 2, 3

6. 3, 5

Problem Solving

7. Identify a number on the table that has exactly 3 factors. Write the number and list its factors.

Show your work.

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Prime and Composite Numbers

Prime Numbers

- one array
- exactly 2 factors, one and itself



$1 \times 2 = 2 \rightarrow$ Factors: 1, 2

Composite Numbers

- more than 1 array
- more than 2 factors



$1 \times 4 = 4$

$2 \times 2 = 4 \rightarrow$ Factors: 1, 2, 4

In the table below, list the factors for each number. Use counters if you wish. Tell if the number is prime or composite.

| | Number | Factors | Prime or Composite |
|----|--------|---------|--------------------|
| 1. | 7 | | |
| 2. | 24 | | |
| 3. | 15 | | |
| 4. | 13 | | |
| 5. | 25 | | |
| 6. | 35 | | |

Problem Solving

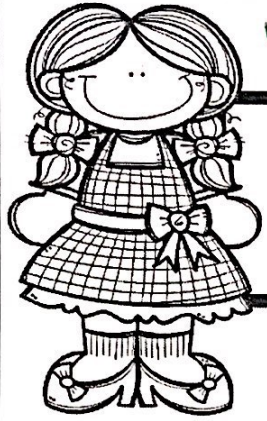
7. Jeff is thinking of a number between 30 and 40 that is prime. If the digits of this prime number are added together, the sum is 10. What number is Jeff thinking of?

Show your work.

Name _____ Date _____










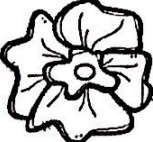


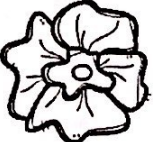
I CAN FIND PRIME AND COMPOSITE NUMBERS

Directions: Help Dorothy follow the yellow brick road to find Oz. Color the composite numbers yellow and the prime numbers green.



Use your notebook!!!

** Composite = yellow
* Prime = green*

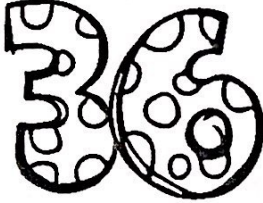
| | | | | | | | | |
|---|---|--|---|---|---|----|----|----|
| Start | 3 | 78 | 42 | 11 | 80 | 2 | 35 | |
|  |  |  |  | 39 | | | | |
| 93 | 14 | 50 | 67 | 4 | 91 | 47 | 15 | 99 |
| 73 |  |  |  |  |  | | | |
| 16 | 97 | 77 | 66 | 41 | 23 | 62 | 40 | 83 |
|  |  |  |  | 26 | | | | |
| END | 29 | 32 | 98 | 61 | 30 | 12 | | |

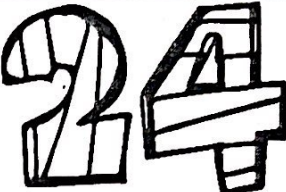


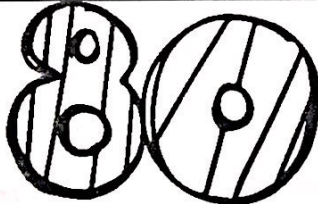
Name _____ Date _____


I Can Find Factors

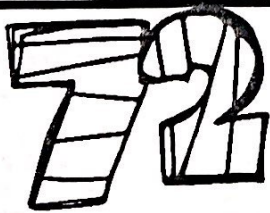
Directions: Look at each big number and find its factors. Color all of the numbers that are factors of the big number.

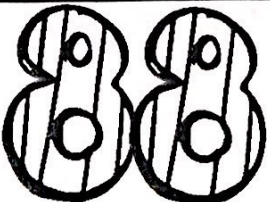
1.  4
12 7 18
6 2
5 9 8 3

2.  9
5 8
2 3 10
12 7 6 4

3.  3
6 2
40 20 9
7 4 16 5

4.  6
7 8
4 5 9
3 13 2 11

5.  11
14 3 4 36
2 4
24 13 18

6.  10
2 4 44
9 22 8 11
5