Divisibility Worksheet

Number	Digit Sum	2	3	4	5	6	8	9	10	Number Divisible by:
1248	1 + 2 + 4 + 8 = 15	√	√	√		√				2, 3, 4, and 6
15										
16										
27										
28										
36										
57										
70										
75										
91										
93										
102										
144										
150										
168										
195										
225										
256										
268										
316										
450										
549										
1470										
4518										
7120										

Divisibility Rules

2 - The last digit will be 0, 2, 4, 6, 8

3 - The sum of the digits is a multiple of 3 (3654...3 + 6 + 5 + 4 = 18 (18 ÷ 3 = 6))

4 - The last two digits are a multiple of 4 (12364....64 ÷ 4=16)

5 - The last digit will be 0 or 5

6 - The number is divisible by **BOTH** 2 & 3

8 - The last three digits are divisible by 8

10 -The last digit will be 0

12 - The number is divisible by **BOTH** 3 & 4

15 - The number is divisible by **BOTH** 3 & 5

name _____ date _____

Directions: Use your notes on <u>Rules of Divisibility</u> to complete this page. Circle each divisor that the number is divisible by.

1. **432**

is this number divisible by...

   2   3   5   10

2. **357**

is this number divisible by...

   2   3   5   10

3. **2,360**

is this number divisible by...

   2   3   5   10

4. **5,671**

is this number divisible by...

   2   3   5   10

5. **16,303**

is this number divisible by...

   2   3   5   10

6. **38,475**

is this number divisible by...

   2   3   5   10

7. **400,005**

is this number divisible by...

   2   3   5   10

8. **782,340**

is this number divisible by...

   2   3   5   10

9. **7,321,694**

is this number divisible by...

   2   3   5   10

10. **6,862,356**

is this number divisible by...

   2   3   5   10

name _____ date _____

Directions: Use your notes on <u>Rules of Divisibility</u> to complete this page. Circle each divisor that the number is divisible by.

1.   **432**

is this number divisible by...

2   3   4   5   6   7   8   9   10

2.   **357**

is this number divisible by...

2   3   4   5   6   7   8   9   10

3.   **2,360**

is this number divisible by...

2   3   4   5   6   7   8   9   10

4.   **5,671**

is this number divisible by...

2   3   4   5   6   7   8   9   10

5.   **16,303**

is this number divisible by...

2   3   4   5   6   7   8   9   10

6.   **38,475**

is this number divisible by...

2   3   4   5   6   7   8   9   10

7.   **400,005**

is this number divisible by...

2   3   4   5   6   7   8   9   10

8.   **782,340**

is this number divisible by...

2   3   4   5   6   7   8   9   10

9. **7,321,694**

is this number divisible by...

2   3   4   5   6   7   8   9   10

10. **6,862,356**

is this number divisible by...

2   3   4   5   6   7   8   9   10

name _____ date _____

Directions: Use your notes on <u>Rules of Divisibility</u> to complete this page. Circle each divisor that the number is divisible by.

1. **210**

is this number divisible by...

2   3   5   10

2. **588**

is this number divisible by...

2   3   5   10

3. **1,105**

is this number divisible by...

2   3   5   10

4. **4,132**

is this number divisible by...

2   3   5   10

5. **20,043**

is this number divisible by...

2   3   5   10

6. **13,156**

is this number divisible by...

2   3   5   10

7. **211,032**

is this number divisible by...

2   3   5   10

8. **362,880**

is this number divisible by...

2   3   5   10

9. **2,031,037**

is this number divisible by...

2   3   5   10

10. **4,128,796**

is this number divisible by...

2   3   5   10

name _____ date _____

Directions: Use your notes on <u>Rules of Divisibility</u> to complete this page. Circle each divisor that the number is divisible by.

1. **210**

is this number divisible by...

2   3   4   5   6   7   8   9   10

2. **588**

is this number divisible by...

2   3   4   5   6   7   8   9   10

3. **1,105**

is this number divisible by...

2   3   4   5   6   7   8   9   10

4. **4,132**

is this number divisible by...

2   3   4   5   6   7   8   9   10

5. **20,043**

is this number divisible by...

2   3   4   5   6   7   8   9   10

6. **13,156**

is this number divisible by...

2   3   4   5   6   7   8   9   10

7. **211,032**

is this number divisible by...

2   3   4   5   6   7   8   9   10

8. **362,880**

is this number divisible by...

2   3   4   5   6   7   8   9   10

9. **2,031,037**

is this number divisible by...

2   3   4   5   6   7   8   9   10

10. **4,128,796**

is this number divisible by...

2   3   4   5   6   7   8   9   10