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You May Also Like:

Multiplication and Division Bundle



Dividing By 10



Division Game



Missing Number Equations

Prep-Work:

1. Begin by figuring out what rules you want to teach, and printing off those pages. Each set has a page with two grids and numbers in the grid. You will only need to print one page per two students.
2. Now, gather up scissors, glue, highlighters, pencils, and a math notebook.
3. Next, have the students cut on the dotted lines.
4. Finally, place glue on the small tab at the top. Have them glue page three down first, page two on top of it, and then page 1 on top of that.

Directions:

See post for directions:

<https://youvegotthismath.com/2019/03/21/divisibility-rules-worksheet/>

2

If a number ends in

0, 2, 4, 6, 8

It is divisible by two.

20, 42, 64, 76, 38
are all divisible by 2.

21, 43, 85, 97, 109
Are not divisible by 2.

3

Add up all the digits in the number. If the sum is divisible by 3, the number is divisible by three.

51 (5 + 1 = 6) Six is divisible by three so 51 is divisible by three.

65 (6 + 5 = 11) Eleven is not divisible by three so 65 is not divisible by three.

6

If the number is divisible by 2 AND 3 it is divisible by 6.

42 – Ends in a two (divisible by 2)

4 + 2 = 6 (6 is divisible by three so 42 is divisible by 3)

Since YES to both this number is divisible by 6

56 – ends in a six (divisible by two)

5 + 6 = 11 (11 is not divisible by 3 so 56 is not divisible by 3.

Since NO to one, 56 is NOT divisible by 6.

2

Highlight the numbers divisible by two.
Write why or why not next to them.

12

23

36

42

108

231

482

3

Highlight the numbers divisible by three.
Write why or why not next to them.

12

23

36

42

108

231

482

6

Highlight the numbers divisible by six.
Write why or why not next to them.

12

23

36

42

108

231

482

2

3

6

99	21	32	33	54
54	102	438	982	208
369	438	69	102	438
102	651	308	438	54

99	21	32	33	54
54	102	438	982	208
369	438	69	102	438
102	651	308	438	54

5

If a number ends in

0 or 5

It is divisible by five.

*20, 45, 60, 75, 30
are all divisible by 5.*

*21, 43, 84, 97, 106
Are not divisible by 5.*

10

If a number ends in a

0

It is divisible by ten.

*20, 40, 60, 70, 30
are all divisible by 10.*

*21, 43, 85, 97, 109
Are not divisible by 10.*

9

Add up all the digits in the number. If the sum is divisible by 9, the number is divisible by nine.

54 (5 + 4 = 9) Nine is divisible by nine so 54 is divisible by nine.

65 (6 + 5 = 11) Eleven is not divisible by nine so 65 is not divisible by nine.

5

10

9

Highlight the numbers divisible by five.
Write why or why not next to them.

Highlight the numbers divisible by ten.
Write why or why not next to them.

Highlight the numbers divisible by nine.
Write why or why not next to them.

10

10

12

23

23

27

35

36

36

42

40

42

105

108

108

231

230

954

480

482

875

5

10

9

90	25	980	945	280
513	650	675	185	810
810	810	90	650	90
280	675	694	945	980

90	25	980	945	280
513	650	675	185	810
810	810	90	650	90
280	675	694	945	980

4

If the last two digits form a number that is divisible by 4, it is divisible by 4.

124 – 24 is divisible by four so 124 is divisible by four.

134 – 34 is not divisible by four so 134 is not divisible by 4.

8

If the last three digits form a number that is divisible by 8, it is divisible by 8.

1,200 – 200 is divisible by eight so 1,200 is divisible by eight

1,234 – 234 is not divisible by eight so 1,234 is not divisible by 8.

7

Take the number in the ones place and multiply that by two. Take the product and subtract that from the rest of the number (not including the ones place). If the difference is divisible by seven the number is divisible by seven.

$$161 - 1 \times 2 = 2$$

$$16 - 2 = 14$$

14 is divisible by 7 so 161 is divisible by 7.

4

8

7

Highlight the numbers divisible by five.
Write why or why not next to them.

124

158

248

356

688

213

744

Highlight the numbers divisible by ten.
Write why or why not next to them.

448

23

408

200

1,216

458

1,584

Highlight the numbers divisible by seven.
Write why or why not next to them.

392

175

389

133

108

170

287

4

8

7

168	623	168	380	272
392	272	483	348	392
448	492	602	448	980
686	768	609	392	768

168	623	168	380	272
392	272	483	348	392
448	492	602	448	980
686	768	609	392	768