

Divisibility Sample Puzzles

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by Stefan Hollos and J. Richard Hollos

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**The web page for the Divisibility puzzles book
is**

<https://www.abrazol.com/books/gamesv02/>

Rules

Each puzzle presents a list of 9 two digit numbers with one of the digits missing. For each number a divisor of the number is given. From this information and the fact that the digits 1 through 9 must all appear once among the missing digits, you must determine the missing digits.

Divisibility

Sample Puzzles

1

☐ ☐ 7 divisible by 19

☐ ☐ 0 divisible by 14

☐ 6 ☐ divisible by 21

☐ 4 ☐ divisible by 23

☐ 2 ☐ divisible by 7

☐ 3 ☐ divisible by 13

☐ 4 ☐ divisible by 8

☐ 4 ☐ divisible by 6

☐ ☐ 5 divisible by 5

2

☐ 4 divisible by 9

9 ☐ divisible by 7

☐ 6 divisible by 22

7 ☐ divisible by 13

☐ 2 divisible by 12

3 ☐ divisible by 16

2 ☐ divisible by 6

6 ☐ divisible by 23

☐ 8 divisible by 19

3

☒ ☐ divisible by 16

☐ ☒ divisible by 13

☒ ☐ divisible by 17

☐ ☒ divisible by 4

☐ ☒ divisible by 11

☐ ☒ divisible by 9

☐ ☒ divisible by 14

☐ ☒ divisible by 10

☐ ☒ divisible by 19

4

☐ 8 divisible by 13

☐ 0 divisible by 3

4 ☐ divisible by 6

☐ 9 divisible by 23

☐ 8 divisible by 16

☐ 6 divisible by 8

☐ 6 divisible by 7

6 ☐ divisible by 21

6 ☐ divisible by 17

5

☐ 0 divisible by 9

☒ 5 divisible by 13

☐ 0 divisible by 8

☐ 0 divisible by 15

☐ 6 divisible by 22

☐ 7 divisible by 19

☐ 4 divisible by 6

☐ 0 divisible by 14

☒ 2 divisible by 7

6

☐ 5 divisible by 9

6 ☐ divisible by 21

☐ 0 divisible by 3

5 ☐ divisible by 17

☐ 0 divisible by 10

☐ 7 divisible by 19

☐ 6 divisible by 22

☐ 4 divisible by 12

4 ☐ divisible by 14

7

☐ 5 ☐ divisible by 18

☐ 4 ☐ divisible by 15

☐ ☐ 0 divisible by 3

☐ ☐ 8 divisible by 9

☐ ☐ 0 divisible by 20

☐ 4 ☐ divisible by 21

☐ ☐ 8 divisible by 19

☐ 4 ☐ divisible by 16

☐ ☐ 8 divisible by 13

☐ 4 divisible by 17

☐ 2 divisible by 11

7 ☐ divisible by 3

☐ 0 divisible by 20

☐ 4 divisible by 16

6 ☐ divisible by 23

☐ 6 divisible by 8

☐ 0 divisible by 2

6 ☐ divisible by 13

9

☐ 4 divisible by 17

☐ 7 divisible by 19

☐ 8 divisible by 9

☐ 2 divisible by 21

☐ 6 divisible by 23

☐ 4 divisible by 16

☐ 6 divisible by 8

☐ 7 divisible by 18

☐ 0 divisible by 10

10

☐ 4 divisible by 16

☐ 5 divisible by 15

☐ 8 divisible by 19

☐ 8 divisible by 9

☐ 2 divisible by 7

☐ 5 divisible by 11

☐ 6 divisible by 13

☐ 6 divisible by 23

☐ 2 divisible by 4

11

☐ ☐ 7 divisible by 11

☐ 9 ☐ divisible by 7

☐ 9 ☐ divisible by 5

☐ ☐ 0 divisible by 20

☐ 7 ☐ divisible by 18

☐ ☐ 8 divisible by 19

☐ ☐ 0 divisible by 6

☐ ☐ 4 divisible by 12

☐ ☐ 6 divisible by 23

12

☒ ☐ divisible by 5

☐ ☒ divisible by 8

☐ ☒ divisible by 16

☐ ☒ divisible by 19

☐ ☒ divisible by 3

☐ ☒ divisible by 9

☐ ☒ divisible by 18

☒ ☐ divisible by 17

☐ ☒ divisible by 11

Solutions

1. 5 7 3 6 1 9 8 2 4
2. 5 1 6 8 7 2 4 9 3
3. 2 3 4 6 5 1 8 9 7
4. 7 9 2 6 4 1 5 3 8
5. 9 2 4 3 6 5 8 7 1
6. 4 3 9 1 7 5 6 8 2
7. 4 5 9 1 6 2 3 8 7
8. 3 2 8 4 6 9 1 7 5
9. 3 6 1 4 9 8 5 2 7
10. 6 7 3 1 8 5 2 4 9
11. 7 1 5 6 2 3 9 8 4
12. 5 1 8 3 6 9 7 4 2