

Divisibility Rules Worksheet

Name: _____ Date: _____ Class: _____

A. Divisibility Rules

Write the rule for each number.

- 1. Divisible by **2**: _____
- 2. Divisible by **3**: _____
- 3. Divisible by **4**: _____
- 4. Divisible by **5**: _____
- 5. Divisible by **6**: _____
- 6. Divisible by **7**: _____
- 7. Divisible by **8**: _____
- 8. Divisible by **9**: _____
- 9. Divisible by **10**: _____

B. Write Yes or No

Number	÷ 2	÷ 3	÷ 4	÷ 5	÷ 6	÷ 7	÷ 8	÷ 9	÷ 10
24	_____	_____	_____	_____	_____	_____	_____	_____	_____
42	_____	_____	_____	_____	_____	_____	_____	_____	_____
56	_____	_____	_____	_____	_____	_____	_____	_____	_____
72	_____	_____	_____	_____	_____	_____	_____	_____	_____
84	_____	_____	_____	_____	_____	_____	_____	_____	_____
120	_____	_____	_____	_____	_____	_____	_____	_____	_____
126	_____	_____	_____	_____	_____	_____	_____	_____	_____
144	_____	_____	_____	_____	_____	_____	_____	_____	_____

C. Circle the Numbers

- 1. Divisible by 2 17, 24, 35, 48, 51, 62, 73, 90
- 2. Divisible by 3 12, 19, 27, 34, 45, 52, 63, 71
- 3. Divisible by 4 16, 22, 32, 45, 48, 54, 72, 81
- 4. Divisible by 5 15, 22, 30, 41, 55, 68, 75, 82
- 5. Divisible by 6 18, 25, 36, 42, 55, 72, 81, 96

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|--------------------|----------------------------------|
| 6. Divisible by 7 | 21, 32, 42, 50, 63, 75, 84, 91 |
| 7. Divisible by 8 | 16, 24, 35, 48, 56, 72, 85, 96 |
| 8. Divisible by 9 | 18, 27, 35, 45, 54, 62, 72, 81 |
| 9. Divisible by 10 | 20, 25, 40, 56, 70, 85, 100, 113 |

D. Find the Missing Digit

Write **one possible digit** in the blank.

- | | | |
|---|---|--|
| 1. 34_ is divisible by 2 . _____ | 2. 52_ is divisible by 5 . _____ | 3. 27_ is divisible by 3 . _____ |
| 4. 41_ is divisible by 4 . _____ | 5. 34_ is divisible by 6 . _____ | 6. 49_ is divisible by 7 . _____ |
| 7. 12_ is divisible by 8 . _____ | 8. 45_ is divisible by 9 . _____ | 9. 63_ is divisible by 10 . _____ |

E. True or False

Write **True** or **False**.

- | | | |
|---|--|---------------------------------|
| 1. 48 is divisible by 6. _____ | 2. 56 is divisible by 7. _____ | 3. 72 is divisible by 8. _____ |
| 3. 135 is divisible by 5. _____ | 4. 144 is divisible by 9. _____ | 5. 125 is divisible by 4. _____ |
| 6. 84 is divisible by both 6 and 7. _____ | 7. 120 is divisible by 2, 3, 4, 5, 6, 8, and 10. _____ | |

F. Challenge Questions

1. Find all numbers from **1 to 30** divisible by 6.

2. Find all numbers from **1 to 50** divisible by 7.

3. Find all numbers from **1 to 50** divisible by 8.

4. Which numbers are divisible by **both 6 and 8**?

24, 36, 48, 60, 72, 96

Answer: _____

5. Find a number between **50 and 150** that is divisible by **6, 7, and 8**.

Answer: _____