

- 1) A number is divisible by 2 if the ones digit is ____, ____, ____, ____, or ____.
- 2) A number is divisible by 3 if the sum of the digits is divisible by ____.
- 3) A number is divisible by 4 if the number formed by the last two digits is divisible by ____.
- 4) When is a number divisible by 5? Explain. _____

- 5) A number is divisible by 8 if the number formed by the last three digits is divisible by ____.
- 6) A number is divisible by 9 if _____
- 7) When is a number divisible by 10? Explain. _____

Test whether each number is divisible by 2, 3, 4, 5, 8, 9, or 10. List them.

- | | | |
|------------|-----------|------------|
| 8) 36 | 9) 150 | 10) 2,235 |
| 11) 245 | 12) 210 | 13) 930 |
| 14) 6,168 | 15) 3,864 | 16) 2,241 |
| 17) 120 | 18) 875 | 19) 10,210 |
| 20) 10,560 | 21) 7,848 | 22) 4,725 |

Find the factor pairs for each number.

23) 26

24) 42

25) 29

26) 110

27) 56

28) 150

29) 77

30) 92

31) 84

Answer Key

- 1) 0, 2, 4, 6, 8
- 2) 3
- 3) 4
- 4) When the ones digit is 0 or 5.
- 5) 8
- 6) The sum of its digits is divisible by 9
- 7) When the ones digit is 0.
- 8) 2, 3, 4, 9
- 9) 2, 3, 5, 10
- 10) 3, 5
- 11) 5
- 12) 2, 3, 5, 6, 10
- 13) 2, 3, 5, 6, 10
- 14) 2, 3, 4, 8
- 15) 2, 3, 4, 8
- 16) 3, 9
- 17) 2, 3, 4, 5, 6, 8, 10
- 18) 5
- 19) 2, 5, 10
- 20) 2, 3, 4, 5, 6, 8, 10
- 21) 2, 3, 4, 8, 9
- 22) 3, 5, 9
- 23) $1 \times 26, 2 \times 13$
- 24) $1 \times 42, 2 \times 21, 3 \times 14, 6 \times 7$
- 25) 1×29
- 26) $1 \times 110, 2 \times 55, 5 \times 22, 11 \times 10$
- 27) $1 \times 56, 2 \times 28, 4 \times 14, 8 \times 7$
- 28) $1 \times 150, 2 \times 75, 3 \times 50, 5 \times 30, 6 \times 25, 10 \times 15$
- 29) $1 \times 77, 7 \times 11$
- 30) $1 \times 92, 2 \times 46, 4 \times 23$
- 31) $1 \times 84, 2 \times 42, 3 \times 28, 4 \times 21, 6 \times 14, 7 \times 12$