

Factors, Multiples, and Divisibility

Tell whether each number is divisible by 2, 3, 4, 5, 6, 9, or 10.

1. 27 _____ 2. 86 _____
3. 348 _____ 4. 954 _____

Tell whether each number is a multiple of the second.

5. 78; 2 _____ 6. 535; 3 _____

7. **Number Sense** Name 3 numbers that are factors of both 15 and 30.

The sixth graders at Washington Middle School researched the history of their city. The students then gave a presentation to the other students at the school.

8. If there were 64 sixth graders, list all of the ways they could have been divided equally into groups of 10 or fewer students.

9. Only 60 sixth graders were present. Of the 60, 14 were needed to run the light and sound equipment during the presentation. How could the remaining students be divided into equal groups of 6 or fewer students to read the presentation?

10. The 60 students were transported in vans to the high school to share their presentation. If the vans carry a maximum of 7 students each, what was the minimum number of vans required to carry the students to the high school?

11. Which of the following numbers is divisible by both 9 and 4?

A 24,815 **B** 18,324 **C** 9,140 **D** 9,126

12. **Writing in Math** If a number is divisible by both 2 and 6, is it always divisible by 12? Use examples in your answer.
