NAME _____ DATE _____ PERIOD _____

1-2 Practice: Skills

Divisibility Patterns

Tell whether the first number is divisible by the second number.

1. 527; 3
2. 1,048; 6
3. 693; 9
4. 1,974; 2
5. 305; 10
6. 860; 5
7. 4,672; 9
8. 2,310; 6
9. 816; 3
10. 13,509; 5
11. 2,847; 2
12. 192; 6

Tell whether each number is divisible by 2, 3, 4, 5, 6, 9, or 10. Then classify the number as *even* or *odd*.

13. 24
14. 27
15. 90
16. 81
17. 104
18. 205
19. 1,000
20. 6,598
21. 399
22. 27,453
23. 33,324
24. 16,335

Use divisibility rules to find each missing digit. List all possible answers.

25. 1__2 is divisible by 9

26. 1,__24 is divisible by 4

27. 1,25__ is divisible by 3

28. 5__32 is divisible by 6

Lesson 1–2

NAME _____ DATE _____ PERIOD _____

1-2 Practice: Word Problems

Divisibility Patterns

MONTHS OF THE YEAR **For Exercises 1–3, use the table that shows how many days are in each month, excluding leap years. (Every four years, the calendar is adjusted by adding one day to February.)**

JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEP.	OCT.	NOV.	DEC.
31	28	31	30	31	30	31	31	30	31	30	31

1. Which month has a number of days that is divisible by 4? During a leap year, is this still true?

2. Which months have a number of days that is divisible by both 5 and 10? During a leap year, is this still true?

3. The total number of months in a year are divisible by which numbers?

4. FOOD Jermaine and his father are in charge of grilling for a family reunion picnic. There will be 40 people attending. Ground beef patties come 5 to a package. How many packages of patties should they buy to provide 1 hamburger for each person? Will there by any patties left over? If so, how many?

5. RETAIL Li is stacking bottles of apple juice on the shelf at her parent's grocery store. She has space to fit 4 bottles across and 6 bottles from front to back. She has 25 bottles to stack. Will all of the bottles fit on the shelf? Explain.

6. FARMING Sally is helping her mother put eggs into egg cartons to sell at the local farmer's market. Their chickens have produced a total of 108 eggs for market. Can Sally package the eggs in groups of 12 so that each carton has the same number of eggs? Explain.