

LISTING FACTORS AND MULTIPLES OF 12

- 1 Write the number 12 at the top.
- 2 List every whole number that divides 12 exactly: 1, 2, 3, 4, 6, **12**.
- 3 List the first five multiples by counting in 12s: **12**, 24, 36, 48, 60.
- 4 Mark 12 as composite because it has more than two factors.

WARM-UP

Shade the patterns on the hundred square.

1. Shade all multiples of 12.
2. Shade all factors of 36.
3. Shade all multiples of 15.

PRACTICE

- 1 In a board game a player collects cards worth **7** points each. List all factors of **7** and say if it is prime or composite.
- 2 A dice game uses a ten-sided die. List all factors of **10** and say if it is prime or composite.
- 3 Players score **13** points for each goal in a playground game. List all factors of **13** and say if it is prime or composite.
- 4 In a card game each round scores **12** points. List all factors of **12** then its first five multiples.
- 5 A team game awards **15** points per round. List all factors of **15** then its first five multiples.

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. Every prime number has exactly two factors.
- b. All multiples of 4 are also multiples of 2.
- c. The number 1 is a prime number.
- d. A composite number has an even number of factors.