

5-Minute Check

Transparency 9-2

Find the factors of each number. Then classify each number as *prime* or *composite*.

1. 70

2. 129

3. Factor $36d^3e^2$ completely.

4. Find the GCF of $4a^2b$, $8ab^2$, and $-4b^3$.

5. David is separating 72 students into at least three teams. What size teams will divide the students into equal groups of no fewer than 15 students each?

6. **Standardized Test Practice** If 12 is a factor of ab , where a and b are natural numbers, which of the following must be true?

- (A) 4 is not a factor of a or b .
- (B) 2 must be a factor of both a and b .
- (C) 3 must be a factor of a or b .
- (D) 6 must be a factor of a or b .

ANSWERS

1. 1, 2, 5, 7, 10, 14, 35, 70; composite

2. 1, 129; prime

3. $2 \cdot 2 \cdot 3 \cdot 3 \cdot d \cdot d \cdot d \cdot e \cdot e$

4. $4b$

5. 3 teams of 24 students or 4 teams of 18 students

6. C