

SKILL 5: Practice

Write the prime factorization for each number in expanded form as a product of individual factors. Then write each prime factorization using exponents.

1. 144

2. 90

3. 1,925

4. 480

5. 405

6. 444

7. 128

8. 225

9. 2,600

Write each prime factorization in expanded form. Then write the number in standard form.

10. $2^3 \times 3 \times 5^3$

11. $2^2 \times 3^3 \times 7^2 \times 11$

12. Luis used exponents to write this prime factorization for a number: $2^3 \times 3^3 \times 5^3$

What is the standard form for this number? _____

TEST PREP

13. Which is the prime factorization for 720 using exponents?

Skill 5

A $2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 5$

B $2^4 \times 3^2 \times 5$

C $2^3 \times 3^2 \times 5$

D $2 + 2 + 2 + 2 + 3 + 3 + 5$

14. Which is 7^3 in standard form?

Skill 4

F 21

G 37

H 73

J 343