

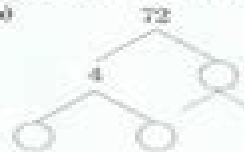
EXERCISE 1.2



BASIC PRACTICE

1. Determine whether the following numbers are prime numbers.
(a) 103 (b) 229 (c) 817

2. Find the prime factorization of the following numbers using the factor tree method. Write your answers in exponential notation.
(a) 54 (b) 72



3. Find the prime factorization of each of the following numbers, expressing your answers in exponential notation.
(a) 96 (b) 104 (c) 135
(d) 196 (e) 204 (f) 252
(g) 315 (h) 360
4. Express each of the following in exponential notation.
(a) $8 \times 8 \times 8$
(b) $3 \times 3 \times 3 \times 3 \times 3$
(c) $7 \times 7 \times 9$
(d) $4 \times 4 \times 6 \times 6$
(e) $2 \times 3 \times 11 \times 11 \times 11$
(f) $5 \times 5 \times 13 \times 5 \times 13 \times 37$

5. Write each of the following in standard form.
(a) 17^2 (b) 5^3
(c) $2^2 \times 11^3$ (d) $3^4 \times 2^5$



FURTHER PRACTICE

6. Find the prime factorization of each of the following numbers, giving your answers in exponential notation.
(a) 180 (b) 616
(c) 735 (d) 1,350

7. (a) Find the missing numbers in the factor tree.



- (b) Can you find the number at the top of the tree without finding the other two numbers?

8. Express each of the following in exponential notation, where all the bases are prime numbers.
(a) 12×15
(b) 54×98
(c) $18 \times 10 \times 75$
(d) $33 \times 60 \times 125$



MATH WORK

9. A lock can only be opened by using a 3-digit number. Ben sets this 3-digit number to be the largest prime number under 1,000. What is this number?



BRAIN WORKS

10. Express each of the following as a single number in exponential notation.
(a) $2^3 \times 2^5$ (b) $3^4 \times 3^5$
(c) $11^3 + 11^3$ (d) $(5^2)^3$
11. The prime numbers, 17 and 19, are called twin primes because they differ by 2. List three other pairs of twin primes.

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