

Name _____

Date _____

Prime Factorization

G5

Fifth graders break composite numbers into products of prime numbers, understanding that every number has a unique prime factorization.

Q1 What is the prime factorization of 12?

A. 3×4

B. 2×6

C. $2^2 \times 3$

D. 1×12

Q2 Which shows the prime factorization of 18?

A. 2×9

B. 3×6

C. 2×3^2

D. 18×1

Q3 What is the prime factorization of 20?

A. 4×5

B. 2×10

C. $2^2 \times 5$

D. 20×1

Q4 Which number has the prime factorization 3×5 ?

A. 15

B. 12

C. 8

D. 35

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Prime Factorization - Answer Key

Q1 C

Q2 C

Q3 C

Q4 A