

ANSWER KEY Extra Practice: Primes, Composites and Factors

List all positive factors of each. State whether the number is prime or composite.

1) 29

1, 29 prime

2) 24

1, 2, 3, 4, 6, 8, 12, 24 composite

3) 26

1, 2, 13, 26 composite

4) 21

1, 3, 7, 21 composite

5) 15

1, 3, 5, 15 composite

6) 17

1, 17 prime

7) 18

1, 2, 3, 6, 9, 18 composite

8) 22

1, 2, 11, 22 composite

Write the prime factorization of the number.

9) 26

$2 \cdot 13$

10) 16

2^4

11) 20

$2^2 \cdot 5$

12) 15

$3 \cdot 5$

Write the prime factorization of each. Do not use exponents.

13) $10xy$

$2 \cdot 5 \cdot x \cdot y$

14) $21x$

$3 \cdot 7 \cdot x$

15) $4a^2$

$2 \cdot 2 \cdot a \cdot a$

16) $24xy$

$2 \cdot 2 \cdot 2 \cdot 3 \cdot x \cdot y$