

### Prime Factorization Answer Key

1. Which is the prime factorization of 100?

- a.  $2 \times 50$
- b.  $2 \times 2 \times 25$
- c.  $4 \times 25$
- d.  $2 \times 2 \times 5 \times 5$

2. What is the prime factorization of 28

- a.  $2 \times 2 \times 4 \times 7$
- b.  $2 \times 2 \times 7$
- c.  $4 \times 7$

3. The prime factorization of 48 is

- a.  $2 \times 2 \times 2 \times 2 \times 3$
- b.  $2 \times 2 \times 2 \times 3$
- c.  $2 \times 3 \times 2 \times 4$

4. What is the prime factorization of 27?

- a.  $3 \times 3 \times 9$
- b.  $3 \times 9$
- c.  $3 \times 3 \times 3$

5. What is the prime factorization of 125?

$5 \times 5 \times 5$

6. What is the prime factorization of 56?

$2 \times 2 \times 2 \times 7$

7. What is the prime factorization of 9?

$3 \times 3$

8. What is the prime factorization of 60?

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

9. What is the prime factorization of 72?

$2 \times 2 \times 2 \times 3 \times 3$

10. write the prime factorization of 160?

$2^5 \times 2 \times 2 \times 2$

11. What is the prime factorization of 54?

$2 \times 2 \times 2 \times 7$