## 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. $2 \times 5 \times 2 \times 5$
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 ?

## 5x5x5

6. What is the prime factorization of 56 ?

2x2x2x7
7. What is the prime factorization of 9 ?

3x3
8. What is the prime factorization of 60 ?

2x2x3x5
9. What is the prime factorization of 72 ?

2x2x2x3x3
10 . write the prime factorization of 160 ?
$2 * 5 * 2 * 2 * 2 * 2$
11. What is the prime factorization of 54 ?
$2 \times 2 \times 2 \times 7$
12. Find the prime factorization:

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$2 * 2 * 3 * 3 * 3$

