

Name _____

Exponent Hunting Answer Key

- | | |
|-------|--------|
| 1. -3 | 7. -1 |
| 2. 2 | 8. -2 |
| 3. -3 | 9. 3 |
| 4. -4 | 10. -5 |
| 5. -2 | 11. -3 |
| 6. 6 | 12. 2 |

Teacher's Guide

- Quick implementation tips
 - o Review that a negative exponent means the reciprocal of the corresponding positive power.
 - o Encourage students to identify the base first, then determine the exponent.
- Differentiation strategies
 - o Provide a reference chart of common powers such as 2^3 , 3^2 , 4^3 , and 6^3 for students who need support.
 - o Challenge advanced students to write a rule explaining how to determine the sign of the missing exponent.
- Engagement ideas
 - o Have students hold up a plus or minus card before revealing whether each missing exponent is positive or negative.
 - o Let partners explain the reasoning for one another's answers before checking as a class.
- Extension activities
 - o Ask students to create four missing exponent equations, including at least two with negative exponents, for a classmate to solve.
 - o Have students rewrite each completed equation using reciprocal notation with only positive exponents.