

Exponent Clues Answer Key

- 1) Base: 5. Exponent: 3. The exponent tells me to multiply 5 by itself 3 times.
- 2) Base: 8. Exponent: 2. The exponent tells me to multiply 8 by itself 2 times.
- 3) Base: 4. Exponent: 5. The exponent tells me to multiply 4 by itself 5 times.
- 4) Base: 10. Exponent: 4. The exponent tells me to multiply 10 by itself 4 times.
- 5) Base: 7. Exponent: 3. The exponent tells me to multiply 7 by itself 3 times.
- 6) Base: 9. Exponent: 2. The exponent tells me to multiply 9 by itself 2 times.
- 7) Base: 2. Exponent: 6. The exponent tells me to multiply 2 by itself 6 times.
- 8) Base: 12. Exponent: 2. The exponent tells me to multiply 12 by itself 2 times.
- 9) Base: 3. Exponent: 4. The exponent tells me to multiply 3 by itself 4 times.
- 10) Base: 6. Exponent: 5. The exponent tells me to multiply 6 by itself 5 times.

Teacher's Guide

- Begin by reviewing the vocabulary: base is the repeated factor, and exponent tells how many times the base is used.
- Model one example together before students complete the worksheet independently.
- Encourage students to use the sentence frame, "Multiply the base by itself ___ times," when explaining the exponent.
- Differentiate by allowing students who need support to rewrite each expression as repeated multiplication before writing their explanation.
- Challenge advanced students to write the repeated multiplication expression after identifying the base and exponent.
- Increase engagement by having students quiz a partner using new exponent expressions they create.
- Extend the lesson by asking students to compare two expressions with the same base or the same exponent and explain how they are alike and different.