

Number Bridges Answer Key

1. 6.4×10^6
2. 83,000
3. 5.7×10^{-6}
4. 0.00096
5. 1.25×10^8
6. 0.00000408
7. 9.1×10^{-8}
8. 725,000,000
9. 5.43×10^4
10. 0.0314

Teacher's Guide

- Quick implementation tips
 - o Review that the coefficient in scientific notation must be at least 1 and less than 10.
 - o Encourage students to estimate whether the exponent should be positive or negative before converting.
 - o Have students check each completed row by converting it back to the other form.
- Differentiation strategies
 - o Provide a place value chart for students who need extra support with decimal movement.
 - o Let students work in pairs to explain each conversion aloud before writing it.
 - o Challenge advanced students to identify the exponent without first writing the standard form.
- Engagement ideas
 - o Ask students to rank the completed values from smallest to largest.
 - o Invite students to discuss which real-world descriptions represent very large or very small quantities.
- Extension activities
 - o Have students create three additional rows using their own real-world examples.
 - o Ask students to write a rule for deciding whether an exponent is positive or negative.