

Grade 8 Math Written Response Questions

1. Explain what the distributive property is and how it can be used. How do you know it works all the time?
2. 5^3 can be thought of as $5 \times 5 \times 5$. How is it possible to have a negative exponent? Explain how negative exponents work.
3. It is often said that you can't divide by 0. Why is this? Use your technique to explain the flip and multiply rule for dividing fractions.
4. Is $\sqrt{x^2 + y^2} = x + y$? Use a geometric argument to explain your result. If the result is false, change it so that is correct.