Rational Numbers Worksheet For Class 9

1. Is zero a rational number? Can you write it in the form p/q, where p and q are integers and $q \neq 0$?
2. Write the decimal expansion of the rational number 7/8.
3. State whether the statement "The decimal expansion of a rational number is either terminating or nonterminating recurring" true or false.
4. Show that 3.142678 is a rational number.
5. Express 1.27272727….. in the form p/q, where p and q are integers and $q \neq 0$.
6. Write any two rational numbers between 1/7 and 2/7.
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7. Write any three rational numbers whose decimal expansions are non-terminating recurring.
8. Give two examples of the square root of numbers that are rational numbers.
9. What kind of decimal expansion does the number 329/400 has?
10. Look at several examples of rational numbers in the form p/q ($q \neq 0$), where p and q are integers with no common factors other than 1 and having terminating decimal representation (expansions). Can you guess what property q must satisfy?