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Worksheet: Number Systems

1. Express $0.232323\dots$ in the form p/q .
2. Find six rational numbers between $3/5$ and $4/5$.
3. Write the decimal expansion of $1/6$ up to 10 places of decimals. Is it terminating or non-terminating?
4. Rationalize the denominator: $1 / (\sqrt{5} + \sqrt{2})$.
5. If $x = \sqrt{2} + \sqrt{3}$, find the value of $x^2 - 10$.
6. Express $0.666\dots$ in the form p/q .
7. Find the value of: $(2/5 \div 3/10) + 4/15$.