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Worksheet: Number Systems

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