

# Learnzy Academy

## Worksheet: Number Systems

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