

## Rational and Irrational numbers Part 2

4. Simplify the following expressions.

(a)  $\sqrt{504}$

(b)  $\sqrt{864}$

5. Suppose  $\sqrt{2} = a$ ,  $\sqrt{3} = b$ . Express  $\sqrt{96} - \sqrt{150}$  in terms of  $a$  and  $b$  without root sign.

6. Simplify the following expressions.

(a)  $\sqrt{48} + \sqrt{108}$

(b)  $\frac{9\sqrt{3}}{5} - 2\sqrt{3}$

7. (a) Rationalize  $\frac{4}{\sqrt{5}}$ .

(b) Simplify  $\frac{4}{\sqrt{5}} - \frac{3\sqrt{5}}{5}$ .