Exercise 1

Extract factors out of the root sign.

Example: $\sqrt{12} = \sqrt{3 \times 4} = 2\sqrt{3}$

(1) $\sqrt{45} = \sqrt{}$

(2) $\sqrt{72} = \sqrt{}$

(3) $\sqrt{24} = \sqrt{}$

(4) $\sqrt{76} = \sqrt{}$

(5) $\sqrt{98} = \sqrt{}$

(6) $\sqrt{108} = \sqrt{}$

(7) $\sqrt{112} = \sqrt{}$

(8) $\sqrt{125} = \sqrt{}$

(9) $\sqrt{160} = \sqrt{}$

(9) $\sqrt{120} = \sqrt{}$

LIVEWORKSHEETS

Addition and Subtraction

Similar or like surds (radicals) can be added or subtracted

Exercise 2

Simplify

(1) $3\sqrt{5} + 7\sqrt{5} + \sqrt{125} =$ $\sqrt{}$

(2) $\sqrt{80} - \sqrt{20} + \sqrt{45} =$ $\sqrt{}$

(3) $\frac{1}{2}\sqrt{8} + \frac{1}{3}\sqrt{18} - \frac{1}{4}\sqrt{32} = \sqrt{}$

(4) $\frac{2\sqrt{72} - 3\sqrt{18}}{\sqrt{8} + \sqrt{2}} =$

(5) $\frac{\sqrt{x^2 a} - \sqrt{y^2 b}}{x - y} = \sqrt{} - \sqrt{}$

(6) $\frac{\sqrt{8x} + \sqrt{32x}}{\sqrt{18x} + \sqrt{50x}} =$ ——

LIVEWORKSHEETS