

(15.) A Prussian pound =  $16\frac{1}{2}$  oz.; an Austrian pound =  $19\frac{1}{4}$  oz.; a kilogramme =  $35\frac{1}{4}$  oz.

(16.)  $3\frac{1}{2}$  miles.

## LII.

(1.)  $\sqrt[3]{a}, \sqrt[2]{a}, \sqrt[3]{a^2}, \sqrt{a^3}.$

(2.)  $\frac{1}{x^2}, \frac{1}{x^3}, \frac{1}{x^{10}}.$

(3.)  $\frac{1}{\sqrt[3]{m}}, \frac{1}{\sqrt{n^5}}, \frac{1}{\sqrt[4]{p^7}}.$

(4.)  $2\sqrt[2]{a}, \frac{3}{x^2}, \frac{6}{\sqrt{m^3}}.$

(5.)  $x^{\frac{1}{2}}, m^{\frac{1}{5}}, n^{\frac{1}{3}}.$

(6.)  $x^{-1}, a^{-2}, a^{-5}, a^{-8}.$

(7.)  $x^{\frac{2}{3}}, x^{\frac{2}{5}}, x^{\frac{4}{6}}.$

(8.)  $x^{-\frac{1}{2}}, x^{-\frac{1}{3}}, x^{-\frac{1}{5}}.$

(9.)  $2m^{-1}, 3n^{-2}, 10p^{-3}.$

(10.)  $2x^{-\frac{1}{2}}, 5x^{-\frac{1}{3}}, 7x^{-\frac{2}{5}}.$

## LIII.

(1.)  $6x^{n+1}; 4x^{m+2}; 4x^{3m}.$

(2.)  $2x^{\frac{3}{4}}; 6x^{\frac{5}{6}}; 30x^{\frac{5}{4}}.$

(3.)  $x^{\frac{2n+1}{2}}; 6x^{\frac{3n}{2}}; x^{\frac{5n}{6}}.$

(4.)  $2a; 3a^{-1}; 30a^{-1}.$

(5.)  $a^{\frac{1}{6}}; 2a^{-\frac{1}{2}}; a^{\frac{2}{3}}.$

(6.)  $a^{\frac{p}{6}}; a^{\frac{n}{2}}; a^{\frac{5n}{3}}.$

(7.)  $1; 1; 6; mn.$

## LIV.

(1.)  $a^m; a^{2n}.$

(2.)  $a^{\frac{1}{3}}; a^{\frac{1}{5}}.$

(3.)  $x^{\frac{1}{2}}; x.$

(4.)  $x^3; x^5.$

(5.)  $x; x^3.$

(6.)  $x; x^{\frac{5}{2}}.$

(7.)  $x^n; x^{\frac{3n}{2}}.$

## LV.

(1.)  $a^{12}; a^8; a^9.$

(2.)  $a^{-2}; a^{-6}; a^{-12}.$

(3.)  $a^{-6}; a^6; a^{12}.$

(4.)  $a^{\frac{5}{2}}; a^9; a^{10}.$

(5.)  $a; a^{\frac{1}{2}}; a^{\frac{5}{3}}.$

(6.)  $a^{\frac{2}{3}}; a^{\frac{4}{3}}; a^{\frac{2}{3}}.$