

$$2) A = \frac{l \cdot w}{l}$$

$$\boxed{w = \frac{A}{l}}$$

$$3) F = \frac{mv^2}{r} \cdot r$$

$$\frac{rF}{r} = \frac{mv^2}{m}$$

$$\boxed{v^2 = \frac{rF}{m}}$$

$$4) W = \frac{F \cdot S}{S}$$

$$\boxed{F = \frac{W \cdot S}{S}}$$

$$5) E = \frac{m \cdot g}{m}$$

$$\boxed{g = \frac{E}{m}}$$

$$6) E = \frac{mc^2}{c^2}$$

$$\boxed{m = \frac{E}{c^2}}$$

$$7) V \cdot D = \frac{m}{V}$$

$$\frac{VD}{D} = \frac{m}{D}$$

$$\boxed{V = \frac{m}{D}}$$

$$8) 2A = \frac{(h_1 + h_2) \cdot h}{2}$$

$$\frac{2A}{(h_1 + h_2)} = \frac{(h_1 + h_2) \cdot h}{(h_1 + h_2)}$$

$$\boxed{h = \frac{2A}{h_1 + h_2}}$$

$$9) \frac{E}{I} = \frac{IR}{I}$$

$$\boxed{R = \frac{E}{I}}$$

$$10) \frac{P}{I^2} = \frac{I^2 R}{I^2}$$

$$\boxed{R = \frac{P}{I^2}}$$

$$11) \frac{P}{R} = \frac{I^2 R}{R}$$

$$\boxed{I^2 = \frac{P}{R}}$$

$$12) 3V = \frac{\pi R^2 h}{3}$$

$$\frac{3V}{\pi R^2} = \frac{\pi R^2 h}{\pi R^2}$$

$$\boxed{h = \frac{3V}{\pi R^2}}$$

$$13) P = 2l + 2w$$

$$-2l \quad -2l$$

$$\frac{2w}{2} = \frac{P - 2l}{2}$$

$$\boxed{w = \frac{P}{2} - l}$$

$$14) \frac{9}{5}C = \frac{5}{9}(F - 32)$$

$$\frac{9}{5}C = F - 32$$

$$+32 \quad +32$$

$$\boxed{F = \frac{9}{5}C + 32}$$

$$15) P^T R = \frac{I}{P^T} \cdot P^T$$

$$\boxed{I = P^T R}$$

$$16) wh = \frac{3P}{w} \cdot w$$

$$\frac{wh}{h} = \frac{3P}{h}$$

$$\boxed{w = \frac{3P}{h}}$$

$$17) S = 2l(wth) + 2wh$$

$$-2wh \quad -2wh$$

$$\frac{S - 2wh}{2(wh)} = \frac{2 \cdot l \cdot (wth)}{2(wh)}$$

$$\boxed{l = \frac{S - 2wh}{2(wh)}}$$

$$18) 3V = \frac{\pi R^2 h}{3}$$

$$\frac{3V}{\pi h} = \frac{\pi R^2 h}{\pi h}$$

$$\boxed{R^2 = \frac{3V}{\pi h}}$$

$$19) S = vt + \frac{1}{2}at^2$$

$$-vt \quad -vt$$

$$2(S - vt) = \left(\frac{1}{2}at^2\right) \cdot 2$$

$$\frac{2(S - vt)}{t^2} = \frac{a \cdot t^2}{t^2}$$

$$\boxed{a = \frac{2(S - vt)}{t^2}}$$

$$20) QL = \frac{3MP^2}{Q}$$

$$\frac{QL}{3M} = \frac{3MP^2}{3M}$$

$$P^2 = \frac{QL}{3M}$$

$$21) R^2 F = \frac{mM}{R^2} \cdot R^2$$

$$\frac{R^2 F}{F} = \frac{mM}{F}$$

$$R^2 = \frac{mM}{F}$$

$$22) R^2 F = \frac{mM}{R^2} \cdot R^2$$

$$\frac{R^2 F}{m} = \frac{mM}{m}$$

$$M = \frac{R^2 F}{2}$$