25. $33{,}000 \cdot H = \frac{62.4NS}{33{,}000} \cdot 33{,}000$

$\frac{33{,}000H}{62.4S} = \frac{62.4NS}{62.4S}$

$$N = \frac{33{,}000H}{62.4S}$$

---

26. $h^2 \cdot B = \frac{703w}{h^2} \cdot h^2$

$\frac{h^2B}{703} = \frac{703w}{703}$

$$w = \frac{h^2B}{703}$$

---

27. $2 \cdot K = 2 \cdot \frac{1}{2} mv^2$

$\frac{2K}{v^2} = \frac{mv^2}{v^2}$

$$m = \frac{2K}{v^2}$$

---

28. $5t - 2r = 25$

$+2r \quad +2r$

$\frac{5t}{5} = \frac{25}{5} + \frac{2r}{5}$

$$t = 5 + \tfrac{2}{5}r$$

---

29. $S = R - rR$

$\frac{S}{(1-r)} = \frac{R(1-r)}{(1-r)}$

$$R = \frac{S}{1-r}$$

---

* challenge problem *

30. $\frac{V}{\frac{1}{3}\pi h^2} = \frac{\frac{1}{3}\pi h^2(3r-h)}{\frac{1}{3}\pi h^2}$

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

$+h \quad +h$

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

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

---

31. $2 \cdot A = 2 \cdot \frac{1}{2} nal$

$\frac{2A}{al} = \frac{nal}{al}$

$$n = \frac{2A}{al}$$