

# Algebra I

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2.) $a = \frac{F}{m}$	12.) $r = \frac{A - P}{Pt}$	22.) $n = \frac{l - a + d}{d}$
4.) $v = \frac{m}{d}$	14.) $v = at + u$	24.) $l = \frac{S(1-r) - a}{-r}$
6.) $t = \frac{A - P}{Pr}$	16.) $F = \frac{9C + 160}{5}$	26.) $r = \frac{S}{S + 1}$
8.) $v = \frac{s - 16t^2}{t}$	18.) $y = 3m - x - z$	
10.) $n = \frac{2S}{a + l}$	20.) $l = \frac{2S - na}{n}$	

4)  $d = \frac{m}{v} ; v$

$(d = \frac{m}{v}) \cdot v$

$\frac{dv}{d} = \frac{m}{d}$

$v = \frac{m}{d}$

6)  $a = P + Prt ; t$

$a - P = \cancel{P} + Prt$

$\frac{a - P}{Pr} = \frac{Prt}{Pr}$

$\frac{a - P}{Pr} = t$

$$10) 2 \left[ S = \frac{n}{2}(a+l) \right]; n \quad 12) A = P(1+rt); r$$

$$\frac{2S}{(a+l)} = \frac{n(a+l)}{(a+l)}$$

$$\boxed{\frac{2S}{a+l} = n}$$

$$A = P + Prt$$

$$A - P = P - P + Prt$$

$$\frac{A-P}{Pt} = \frac{P-P}{Pt}$$

$$\boxed{\frac{A-P}{Pt} = r}$$

$$16) 9 \left[ C = \frac{5}{9}(F-32) \right]$$

$$9C = 5(F-32)$$

$$9C = 5F - 160$$

$$9C + 160 = 5F - 160 + 160$$

$$\frac{9C+160}{5} = \frac{5F}{5}$$

$$\boxed{\frac{9C+160}{5} = F}$$

$$18) \left[ m = \frac{x+y+z}{3} \right]; y$$

$$3m = x+y+z$$

$$22) l = a + (n-1)d; n$$

$$l = a + dn - d$$

$$l - a + d = a - a + dn - d + d$$

$$\frac{l-a+d}{d} = \frac{dn}{d}$$

$$\frac{l-a+d}{d} = n$$

$$24) S = \frac{a - rl}{1 - r} ; l$$

$$\left[ S = \frac{a - rl}{1 - r} \right] (1 - r)$$

$$S(1 - r) = a - rl$$

$$S - S_r - a = a - a - rl$$

$$\frac{S - S_r - a}{-r} = \frac{-rl}{-r}$$

$$\boxed{\frac{S - S_r - a}{-r} = l}$$

$$26) S = \frac{r}{1 - r} ; r$$

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

$$S(1 - r) = r$$

$$S - S_r = r$$

$$S - S_r + S_r = r + S_r$$

$$S = r + S_r$$

$$\frac{S}{(1 + S)} = \frac{r(1 + S)}{(1 + S)}$$

$$\frac{S}{1 + S} = r$$