

Answer Key HW

$$1. ax - b = c \quad 2. x + b = c \quad 3. (a-3)x = b$$
$$ax = c + b \quad a \quad x = b$$
$$x = \frac{c+b}{a} \quad x = \frac{(c-b)a}{a-3}$$
$$x = a(c-b)$$

$$4. \frac{ax}{b} = c \quad 5. \frac{x-a}{b} = c \quad 6. \frac{ax}{b} = c$$
$$x = \frac{cb}{a} \quad x - a = bc \quad ax = bc$$
$$x = bc + a \quad x = \frac{bc}{a}$$

$$7. b = ax - c + d \quad 8. c = ax - b \quad 9. abx = c$$
$$b + c - d = ax \quad d \quad x = \frac{c}{ab}$$
$$\frac{b+c-d}{a} = x \quad cd = ax - b$$
$$cd + b = ax$$
$$\frac{cd+b}{a} = x$$

$$10. \frac{3x}{a+b} = c \quad 11. A = \frac{1}{2}bh$$
$$3x = c(a+b)$$
$$x = \frac{c(a+b)}{3}$$
$$2A = bh$$
$$2A = b$$
$$h$$

$$12. C = \frac{a+y}{4b} \quad 13. r = q + pq \text{ or } r = q(1+p)$$
$$4bc = a + y$$
$$4bc - a = y$$
$$\frac{r-q}{q} = p$$
$$\frac{r}{q} - 1 = p$$

$$14. C = i(h-j)$$

$$C = h\dot{c} - j\dot{c}$$

$$C + j\dot{c} = h\dot{c}$$

$$C + j\dot{c} = h$$

$$\dot{c} = h$$

$$(or) \frac{C}{i} + j = h$$

$$15. P = \frac{a}{\epsilon}$$

$$P\epsilon = a(r+q)$$

$$\frac{P\epsilon}{a} = r+q$$

$$\frac{P\epsilon}{a} - q = r$$

$$16. ax + bx = c$$

$$x(a+b) = c$$

$$x = \frac{c}{a+b}$$

$$17. M = \frac{x+y+z}{3}$$

$$3M = x+y+z$$

$$3M - x - z = y$$

$$18. V = \frac{1}{3} Bh$$

$$3V = Bh$$

$$3V = B$$

$$h$$

$$19. 2s = n(a+1)$$

$$2s = a+1$$

$$n$$

$$\frac{2s-1}{n} = a$$

$$20. S = \frac{a}{a-r}$$

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

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

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

$$r = -\frac{a}{S} + a$$