

$$\textcircled{1} \quad 3(2x+5) = 39 \quad x = 4$$

$$\textcircled{2} \quad 2(6k-1) = -38 \quad k = -3$$

$$\textcircled{3} \quad 8(7-y) = -24 \quad y = 10$$

$$\textcircled{4} \quad -4(8+5n) = 8 \quad n = -2$$

⑤ $6(3x - 5) - 7x = 25$ $x = 5$

⑥ $-2(5+6m) + 16 = -90 \quad m = 8$

⑦ $15(t+2) + 9t = 6$ $t = -1$

$$\textcircled{8} \quad 7w - 3(4w + 8) = 11 \quad w = -7$$

$$\textcircled{9} \quad 22 - 5(6v - 1) = -63 \quad v = 3$$

$$\textcircled{10} \quad 18x - (8x - 7) = 67 \quad x = 6$$

$$\textcircled{11} \quad 8(-2x - 4) + 12 = -52 \quad x = 2$$

$$\textcircled{12} \quad 2(9n-1) + 7(n+6) = -60 \quad n = -4$$

⑬ $-3(3x + 15) - (10 + x) = 35$ $x = -9$

$$\textcircled{14} \quad 11(4-6y) + 5(13y+1) = 9$$

MID 5	THE -9	GET -1	SMA 12	SHA 2	RTF 40	AWA -3	LLM 35	AKE -7	EDI 15
TOR 2	UMA -14	PRI 6	UNJ 4	TLA -20	SON 3	AIL 10	CHA -4	RGE -12	TLE 8

S M A L L M E D I U M A T L A R G E

OBJECTIVE 4-m: To solve equations containing parentheses.

Key

$$1) 3(2x+5)=39$$

$$\begin{array}{r} 6x+15=39 \\ -15 \quad -15 \end{array}$$

$$\begin{array}{r} 6x=24 \\ 6 \quad 6 \end{array}$$

$$x=4$$

$$2) 2(6k-1)=-38$$

$$\begin{array}{r} 12k-2=-38 \\ +2 \quad +2 \end{array}$$

$$\begin{array}{r} 12k=-36 \\ 12 \quad 12 \end{array}$$

$$k=-3$$

$$3) 8(7-y)=-24$$

$$\begin{array}{r} 56-8y=-24 \\ -56 \quad -56 \end{array}$$

$$\begin{array}{r} -8y=-80 \\ -8 \quad -8 \end{array}$$

$$y=10$$

$$4) -4(8+5n)=8$$

$$\begin{array}{r} -32-20n=8 \\ +32 \quad +32 \end{array}$$

$$\begin{array}{r} -20n=40 \\ -20 \quad -20 \end{array}$$

$$n=-2$$

$$5) 6(3x-5)-7x=25$$

$$18x-30-7x=25$$

$$\begin{array}{r} 11x-30=25 \\ +30 \quad +30 \end{array}$$

$$\begin{array}{r} 11x=55 \\ 11 \quad 11 \end{array}$$

$$x=5$$

$$6) -2(5+6m)+16=-90$$

$$\begin{array}{r} -10-12m+16=-90 \end{array}$$

$$\begin{array}{r} 6-12m=-90 \\ -6 \quad -6 \end{array}$$

$$\begin{array}{r} -12m=-96 \\ -12 \quad -12 \end{array}$$

$$m=8$$

$$7) 15(t+2)+9t=6$$

$$15t+30+9t=6$$

$$\begin{array}{r} 24t+30=6 \\ -30 \quad -30 \end{array}$$

$$\begin{array}{r} 24t=-24 \\ 24 \quad 24 \end{array}$$

$$t=-1$$

$$8) 7w-3(4w+8)=11$$

$$7w-12w-24=11$$

$$\begin{array}{r} -5w-24=11 \\ +24 \quad +24 \end{array}$$

$$\begin{array}{r} -5w=35 \\ -5 \quad -5 \end{array}$$

$$w=-7$$

$$9) 22-5(6v-1)=-63$$

$$22-30v+5=-63$$

$$\begin{array}{r} 27-30v=-63 \\ -27 \quad -27 \end{array}$$

$$\begin{array}{r} -30v=-90 \\ -30 \quad -30 \end{array}$$

$$v=3$$

$$10) 18x-(8x-7)=67$$

$$18x-8x+7=67$$

$$\begin{array}{r} 10x+7=67 \\ -7 \quad -7 \end{array}$$

$$\begin{array}{r} 10x=60 \\ 10 \quad 10 \end{array}$$

$$x=6$$

$$11) 8(-2x-4)+12=-52$$

$$-16x-32+12=-52$$

$$\begin{array}{r} -16x-20=-52 \\ +20 \quad +20 \end{array}$$

$$\begin{array}{r} -16x=-32 \\ -16 \quad -16 \end{array}$$

$$x=2$$

$$12) 2(9n-1)+7(m+6)=-60$$

$$18n-2+7m+42=-60$$

$$\begin{array}{r} 25n+40=-60 \\ -40 \quad -40 \end{array}$$

$$\begin{array}{r} 25n=-100 \\ 25 \quad 25 \end{array}$$

$$n=-4$$

$$13) -3(3x+15)-(10+x)=35$$

$$-9x-45-10-x=35$$

$$\begin{array}{r} -10x-55=35 \\ +55 \quad +55 \end{array}$$

$$\begin{array}{r} -10x=90 \\ \hline -10 \quad -10 \end{array}$$

$$x=-9$$

$$14) 11(4-6y)+5(13y+1)=9$$

$$44-66y+65y+5=9$$

$$\begin{array}{r} -y+49=9 \\ -49 \quad -49 \end{array}$$

$$\begin{array}{r} -y=-40 \\ \hline -1 \quad -1 \end{array}$$

$$y=40$$