

# EXPRESSIONS & EQUATIONS

NAME \_\_\_\_\_

S.G.

SIMPLIFY.

①  $-5x + 3y - 3x + y$   
\_\_\_\_\_

②  $5(x-6) + 3x - 6$   
\_\_\_\_\_

③  $-5y + 7x - 8 - 3 + 3x - 2y$   
\_\_\_\_\_

④  $7x(x-6) + 12x$   
\_\_\_\_\_

⑤  $(3x-6) + (-9x-3)$   
\_\_\_\_\_

⑥  $(3x-6) - (-8x+3)$   
\_\_\_\_\_

WRITE THE EXPRESSION.

⑦ TWICE A NUMBER DECREASED BY 4. \_\_\_\_\_

⑧  $\frac{1}{3}$  OF A NUMBER PLUS 2. \_\_\_\_\_

SOLVE FOR X. SHOW ALL STEPS & A CHECK.

⑨  $-8x = 40$

⑩  $x - 12 = -6$

$$\textcircled{11} \quad \frac{1}{3}x = 10$$

$$\textcircled{12} \quad \frac{x}{-8} = -10$$

$$\textcircled{13} \quad -3x + 9 = 18$$

$$\textcircled{14} \quad \frac{1}{2}x - 6 = -12$$

$$\textcircled{15} \quad 7x - 6 = -48$$

$$\textcircled{16} \quad \frac{x}{-4} + 7 = 14$$

$$\textcircled{17} \quad -3x + 8 - 4x = 43$$

$$\textcircled{18} \quad -3(x - 8) = 48$$

$$\textcircled{19} \quad 8x+6 = -4x+78$$

$$\textcircled{20} \quad -3(x+4) = 5x-24$$

$$\textcircled{21} \quad 4(x-2)+3(x-1)=17$$

$$\textcircled{22} \quad 5(x-2)+6(x-2)=5x-10$$