Complete as many of the following problems as you can. You do not have to go in order. You can use a calculator to check your work but not to solve the problems.

If your entire table finishes early, you may leave early.

(1) Simplify the following expressions:

(a)
$$-5y+3-5+5+y-3$$

(c)
$$2[-7x-3(3-x)]$$

(b)
$$7(t+8)-4$$

(d)
$$-[-5x-(3x+5)]-[-(-10x-(3-2x))+2x]$$

(2) Solve and check following linear equations.

(a)
$$6x - 15 = 15$$

(c)
$$3(x-2)+8=2(x+5)$$

(b)
$$\frac{11x}{12} = \frac{x}{2} + 5$$

(d)
$$\frac{x+4}{2} - 2 = \frac{2x-1}{3}$$

- (3) Solve for the specified variable:
 - (a) y = 7x + 13 for x

(c) $A = \frac{2x + y + 3z}{5}$ for z

(b) $B = \frac{1}{4}(q+z)$ for q

(d) $F = \frac{9}{5}C + 32 \text{ for } C$

Key:

- (1) (a) -4y
 - (b) 7t + 52
 - (c) -8x 18
 - (d) 2 2x
- (2) (a) 5
 - (b) 12

- (c) 8
- (d) 2
- (3) (a) $x = \frac{y-13}{7}$ (b) q = 4B z

 - (c) $z = \frac{5A 2x y}{3}$
 - (d) $C = \frac{5}{9}(F 32)$ or $C = \frac{5F}{9} \frac{160}{9}$