

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

Key:

(1) (a) $-4y$	(2) (a) 5	(3) (a) $x = \frac{y-13}{7}$
(b) $7t + 52$	(b) 12	(b) $q = 4B - z$
(c) $-8x - 18$	(c) 8	(c) $z = \frac{5A-2x-y}{3}$
(d) $2 - 2x$	(d) 2	(d) $C = \frac{5}{9}(F - 32)$ or $C = \frac{5F}{9} - \frac{160}{9}$