

variable tile (x, y, z, \dots)

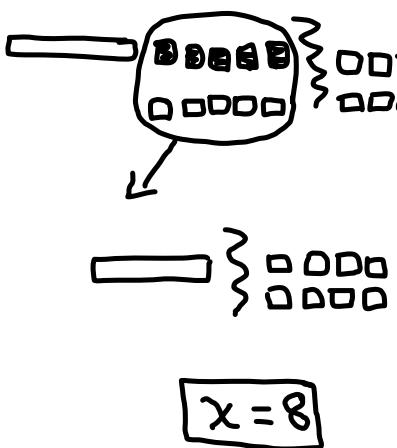
+1

-1

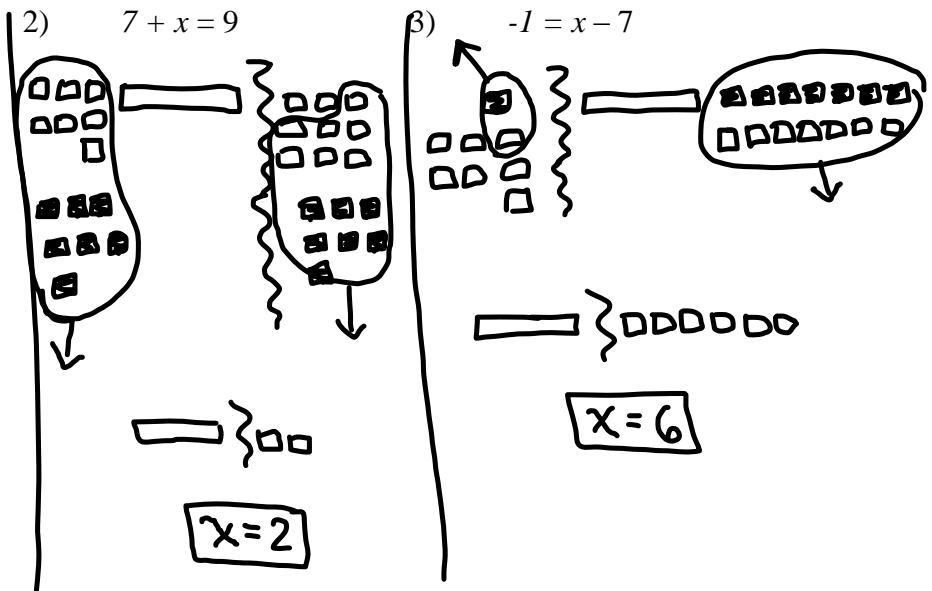
Grade Seven Mathematics
Solving Equations Worksheet #2

MODEL EACH SOLUTION USING ALGEBRA TILES

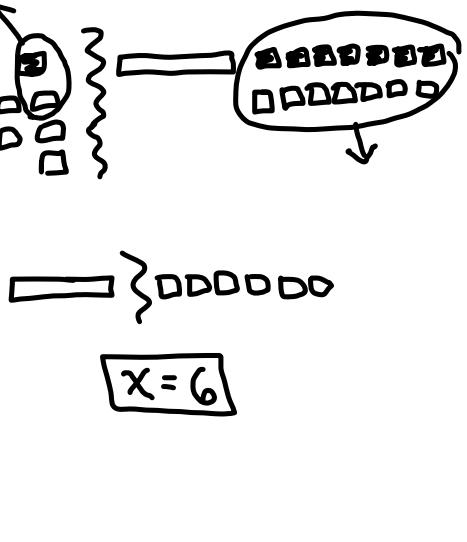
1) $x - 5 = 3$



2) $7 + x = 9$



3) $-1 = x - 7$



4) $x + 5 = 8$

5) $x + 6 = 3$

6) $7 = 10 + x$

SOLVE FOR THE MISSING VARIABLE

$$7) \quad x - 2 = -7$$
$$\cancel{x} + 2$$

$$\boxed{x = -5}$$

$$8) \quad x - 11 = -5$$
$$\cancel{x} + 11$$

$$\boxed{x = 6}$$

$$9) \quad 9 = x - 12$$
$$\cancel{+2} \quad \cancel{-12}$$

$$11 = x$$

$$\boxed{x = 11}$$

$$10) \quad x - 8 = -7$$
$$\cancel{+8} \quad \cancel{+8}$$

$$\boxed{x = 1}$$

$$11) \quad x - 12 = -21$$

$$12) \quad x - 10 = -6$$

$$13) \quad x - 4 = -6$$

$$14) \quad x - 9 = -19$$

$$15) \quad -11 + x = -23$$

$$16) \quad x + 10 = 10$$

$$17) \quad -6 = x + 3$$

$$18) \quad -12 + x = -22$$

$$19) \quad x + 1 = 3$$

$$20) \quad x + 3 = 10$$

$$21) \quad x - 7 = -22$$

$$22) \quad x - 4 = 12$$

$$23) \quad -63 = x - 3$$

$$24) \quad -19 + x = -27$$