

# Negative Numbers 3 (chip boards classwork)

## LEARNING TARGET:

(LT2) I can add, subtract, multiply and divide integers correctly.

(1) Represent each of the following problems on a chip board, then state the answer.

(a)  $3 + -2 = \underline{\hspace{2cm}}$

(e)  $-1 + 6 = \underline{\hspace{2cm}}$

(b)  $5 - 4 = \underline{\hspace{2cm}}$

(f)  $7 - 3 = \underline{\hspace{2cm}}$

(c)  $-7 + 3 = \underline{\hspace{2cm}}$

(g)  $-3 - -1 = \underline{\hspace{2cm}}$

(d)  $-4 + -2 = \underline{\hspace{2cm}}$

(h) **CHALLENGE:** How might you be able to represent  $3 - 7$  on a chip board? Write your answer *on a separate sheet of paper*.

(2) Represent each on the chip board, then state which direction you've moved on the number line, left (decreasing) or right (increasing).

(a)

i.  $8 - 4 = \underline{\hspace{2cm}}$  Direction:                     

ii.  $8 + -4 = \underline{\hspace{2cm}}$  Direction:

(b)

i.  $10 + -7 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

ii.  $10 - 7 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(c) Explain why it makes sense that adding a negative number is the same as subtracting a positive number.

(d)

i.  $-5 - -3 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

ii.  $-5 + 3 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(e)

i.  $-4 + 1 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

ii.  $-4 - -1 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(f) Explain why it makes sense that adding a negative number is the same as subtracting a positive number.

(3) Use your chip board to evaluate the following expressions.

(a)  $7 + -4 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(e)  $-5 + 1 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(b)  $-8 - -5 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(f)  $-2 - -2 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(c)  $-3 + -4 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(g)  $2 + -5 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(d)  $-3 - -1 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(h)  $-2 + -6 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(4) Using what you've learned from chip boards, evaluate the following expressions.

(a)  $10 + -15 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(e)  $-70 + 23 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(b)  $12 - -8 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(f)  $64 + -81 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(c)  $27 - 52 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(g)  $45 - -14 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(d)  $-22 - -30 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

(h)  $100 + -14 = \underline{\hspace{2cm}}$  Direction:  $\underline{\hspace{2cm}}$

