Name: _____ Date: _____

5.2 Warm Up

1. Write the polynomial for this diagram.

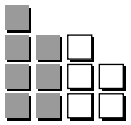
_____

positive 1-tile negative 1-tile
A 1-tile is 1 unit by 1 unit.

positive *x*-tile negative *x*-tile
An *x*-tile is 1 unit by *x* units.

positive x^2-tile negative x^2-tile
An x^2-tile is *x* units by *x* units.

2. Let ■ represent +1, and ❑ represent –1.
Find the sum represented by this diagram.



Remove zero pairs.
1 + (–1) = 0
represents a zero pair.

_____

3. What is the opposite of 7? _____

4. Write the letter of the expression beside the matching expression on the right.

a) 4 + 3 _____ 1 + 17 + (–5)

b) 8 + 7 _____ 2 + 8 + (–8) + 7

c) 4 + (–3) _____ 5 + 2

d) 2 + 8 + 3 _____ 4 + 2 + (–5)

e) 10 + (–6) + 5 _____ 15 + 7 + (–7)

5. Draw a model for each expression.

a) $3x^2 - 2x - 4$

b) $-x^2 + 6$

6. State the degree of each expression.

a) $x^2 - 6x + 2 \rightarrow$ _____

b) $x + 7 \rightarrow$ _____