## Problem set - positive and negative numbers

Name:					Date:	
			creases from twer		to forty above zero, by	how many
			creases from five perature increase		to ten above zero, by	how many
			creases from ter perature increase		to five below zero, by	how many
	_		~		e course of the morning s that daily high?	g, the tem-
			morning was 2 boots its daily high.		ourse of the morning, to taily high?	he temper-
	_	_	e one morning water one one morning was		Over the rest of the day	y, the tem-
7. F	or a thro	ugh d, simp	olify each express	ion.		
(	(a) -	-2 + 4		(c)	0 - (-7)	
(	(b) -	-4 - 7		(d)	10 - 12	

8.	The clerk spends all day adding cash and invoices to the box, and subtracting cash and
	invoices from the box. Monday night the box contained five twenties and two invoices
	for \$50 each, so the total value of the box was zero.

- (a) Positive times positive: On Tuesday, the clerk added two fifties to the box. What was the total value of the box Tuesday night?
- (b) Negative times positive: On Wednesday, the clerk removed two twenties from the box. What was the total value of the box Wednesday night?
- (c) Positive times negative: On Thursday, the clerk added four invoices for \$20 each. What was the total value of the box Thursday night?
- (d) Negative times negative: On Friday, the clerk removed two invoices for \$20 each. What was the total value of the box Friday night?
- 9. For a through d, simplify each expression.

(a) 
$$-3*5$$

(c) 
$$0*(-5)$$

(b) 
$$-4*(-8)$$

(d) 
$$(-10)*(-12)$$

10. The opposite of a number is what you add to that number so that they sum to zero. The opposite of 4 is -4 because 4 + -4 = 0. Find the opposite of each of these.

$$(c) 0$$

(d) 
$$-1$$

- 11. A dimension is to be  $30m \pm 1m$ . What is the maximum value of the dimension? The minimum?
- 12. A dimension must be at most 52 meters and at least 48 meters. Write the dimension as its value plus or minus, as in the problem just above.