

# Math 200 - Quiz 11

November 28, 2012

Name \_\_\_\_\_

Score \_\_\_\_\_

Show all work to receive full credit. Supply explanations when necessary.

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1. (3 points) Zasha used the number line to model  $-5 - 2$ . Here is what she said:

“Start at zero facing right. Turn around, go five. Back-up two. You end up at negative three. Therefore,  $-5 - 2 = -3$ .”

(a) Is Zasha correct? If not, correct her application of the number line model.

(b) Use a different model to illustrate Zasha’s problem.

(c) What fact would Zasha be modeling if she said,

“Start at zero facing right. Back-up five. Then back-up two. You end up at negative seven.”

2. (2 points) Find the LCM and GCD of 2160 and 1400.