

September 28, 2015
 Exam #1
 4 pts per question
~~#1~~ = -4
 -1 #2 $\frac{56}{56} = 100$
 +1 #3 -8 $56 - 8 = \frac{48}{56} = 86$

Sep 28-9:00 AM

#3) $8x - 6$
 $a(b+c) = ab + ac$
 $8x - 6$
 $2 \cdot 4x - 2 \cdot 3$
 $2(4x - 3) = 8x - 6$
 $8(x) - 6$
 $8x - 48$

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$| -5 |^2 - 2(3 - |-12 + 3|) - (-2)$
 $(5)^2 - 2(3 - |-9|) + 2$
 $25 - 2(3 - 9) + 2$
 $25 - 2(-6) + 2$
 $25 + 12 + 2$
 $37 + 2$
 39

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$-6^2 = (-1) \cdot 6^2 = (-1) \cdot 6 \cdot 6 = (-6) \cdot 6 = -36$
 $(-6)^2 = (-6) \cdot (-6) = 36$

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#9)
 $-|-50| \neq -(-5)$
 $-50 \quad (-1) \cdot (-5) = 5$
 $-50 < 5$

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#10)
 $(12 - 3^3) - 12 \cdot 5 \quad ? - (100 \div 5^2) - 72 \div 6^2$
 $(12 - 27) - 12 \cdot 5 \quad - (100 \div 25) - 72 \div 6^2$
 $(-15) - 12 \cdot 5 \quad - (4)^2 - 72 \div 36$
 $-15 - 60 \quad -16 - 72 \div 36$
 $-75 < -16 - 2$
 -18

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$$\mathbb{N} = \{1, 2, 3, \dots\}$$
$$\mathbb{W} = \{0, 1, 2, 3, \dots\}$$
$$\mathbb{Z} = \{\dots, -2, -1, 0, 1, 2, \dots\}$$

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