Key to Sample MAT111 Screening Exam
University of Sioux Falls

1. (a) 5
   (b) 2
   (c) 1
   (d) 3
   (e) 8
   (f) 6
   (g) 4
   (h) 7

2. (a) distributive property
   (b) associative property of multiplication
   (c) commutative property of multiplication
   (d) commutative property of addition
   (e) associative property of addition

3. (a) 8
   (b) $\dfrac{19}{20}$
   (c) $\dfrac{5}{14}$

4. (a) $-x - 4$
   (b) $x^2 + 3x - 10$
   (c) $4x^2 + 12x + 9$

5. (a) $x = -5$
   (b) $x = -3$
   (c) $x = \dfrac{41}{4}$

6. (a) $y = 2x - 3$ is one such equation.
   (b) $y = -5x + 12$ is one such equation.
   (c) $y = -7x - 13$ is one such equation.

7. (a) $3\sqrt{3x}$
   (b) -5

    (c) $\dfrac{7\sqrt{3}}{3}$

8. (a) The percent of decrease was 12.5%.

    (b) 525 of them voted.